

ORDER NO. EMID0107021C0
A8

Service Manual

Personal Music PA System

SY-PA100

(P) U.S.A

(PC) Canada

(PL) Mexico

(EX) Norway, Sweden, Denmark, Finland, Spain, Portugal, South Africa, Greece, Poland

(EF) France

(EQ) Germany

(EG) Switzerland, Italy, Austria, Holland, Belgium

(EB) the United Kingdom

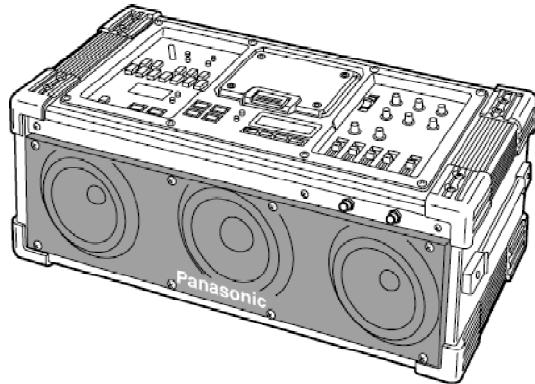
(GN) Australia, New Zealand

(GM) Malaysia, Singapore

(GT) Taiwan

(GU) Thailand, Panama, Brazil, Indonesia

(GH) Saudi Arabia, Hong Kong



SPECIFICATIONS

SPECIFICATIONS

RHYTHMS	70 RHYTHMS, 50 CHORD SEQUENCES (+ 50 UER MEMORIES), VARIATION, TEMPO
CD PLAYER	SAMPLING FREQUENCY: 44.1kHz DECOING: 16 bit LINER / BEAM SOURCE: SEMICONDUCOR LASER(WAVELENGTH 780 nm) / NO. OF CHANNELS: 2 CHANNEL, STEREO / WOW AND FLUTTER : BELOW MEASURABLE LIMIT / D/A CONVERTER:16 bit DAC
MIXER	INPUT4 EQUALIZER, ECHO, OVER DRIVE INPUT1,2,3 EQUALIZER, INPUT1,2,3,4 VOLUME MIXER, MASTER VOLUME
GUITAR TUNER	AUTO MODE (A=440 Hz), SOUND MODE (A =430-450Hz)
TERMINALS	MIDI IN, MIDI OUT, FOOT SW (VARIATION, START/STOP)
INPUT TERMINALS	INPUT4 (GUITAR/MIC): MONAURAL(M6) INPUT1 (AUX IN): STEREO(RCA PIN PLUG)
OUTPUT TERMINALS	INPUT2,3: STEREO/MONO (M6) PHONES: STEREO (M6) / LINE OUT 1: STEREO/MONO (M6) / LINE OUT 2: STEREO(RCA PIN PLUG)
OUTPUT MAX	WOOFER 30W (EIAJ), FULL RANGE 15W+ 15W (EIAJ)
SPEAKERS	WOOFER 14 cm ROUND 8 Ω x 1, FULL RANGE 12 cm ROUND 8 Ω x 2
POWER SUPPLY	AC 230-240V, 50/60Hz AC 120V, 60 Hz (NORTH AMERICA AND MEXICO)
POWER CONSUMPTION	36 W 75 W(NORTH AMERICA AND MEXICO)
DIMENSIONS (WxHx D)	57.4 cm x 22.4 cm x 30 cm (22-19/32" x 8-13/16" x 11-13/16")
NET WEIGHT	12.5 kg (27.6 lbs.)
ACCESSORIES	POWER CORD

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic®

1. WARNING

To prevent the risk of fire, smoke, or electrical shock and to ensure safe operation, please be sure to follow the safety guidelines below.

1. At places where special caution is required, the necessary safety

precautions are clearly labeled or printed, for example, on the cabinet, or on the part concerned. Please follow these safety precautions, and also those listed in the Owner's Manual.

2. Parts which have a  mark in the circuit diagram or in the parts list are essential for safety. When replacing these parts, be sure to use only the specified parts.
3. Use the specified types for internal wiring (double-insulated wiring, etc.).
4. When replacing parts on the AC primary side (power transformer, electric switch, electrical cord, noise-prevention condenser, etc.), wind the lead wire and secure it by soldering.
5. Do not let the wiring come into contact with heat-emitting devices (fuse resistor, radiator plate, etc.).
6. When replacing the wiring, make sure that it is not in contact with the unfinished or rough edge of a part.
7. When replacing the power cord (except for the plug-in type), tug it from various directions to confirm that it does not slip out of place.
8. Spacing

If soldering was done on the AC primary circuit, confirm that the interval between the soldered terminals or between the terminal and surrounding metallic parts is at least the minimum required (between the primary circuit and the chassis: atleast 6.5 mm; between primary circuit terminals: at least 4.0 mm; between primary circuit terminals and secondary circuit terminals: at least 6.5 mm.).

2. SAFETY PRECAUTION

2.1. Safety precaution

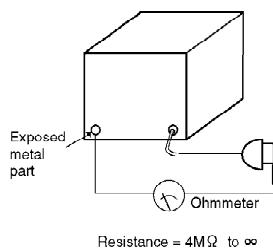
1. Before servicing, unplug the power cord to prevent an electric shock.
2. When replacing parts, use only the manufacturer's recommended components for safety.
3. Check the condition of the power cord. Replace if wear or damage

is evident.

4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.
5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

2.2. Insulation resistance test

1. Unplug the power cord and short the prongs of the plug with a jumper wire.
2. Turn on the power switch.
3. Measure the resistance value with an ohmmeter between the jumpered AC plug and each exposed metal cabinet part, such as screw heads, connectors, control shafts, handle brackets, etc. Measurements should range from 4 M Ohm to infinity for all exposed parts.



3. Handling Precautions For Traverse Deck

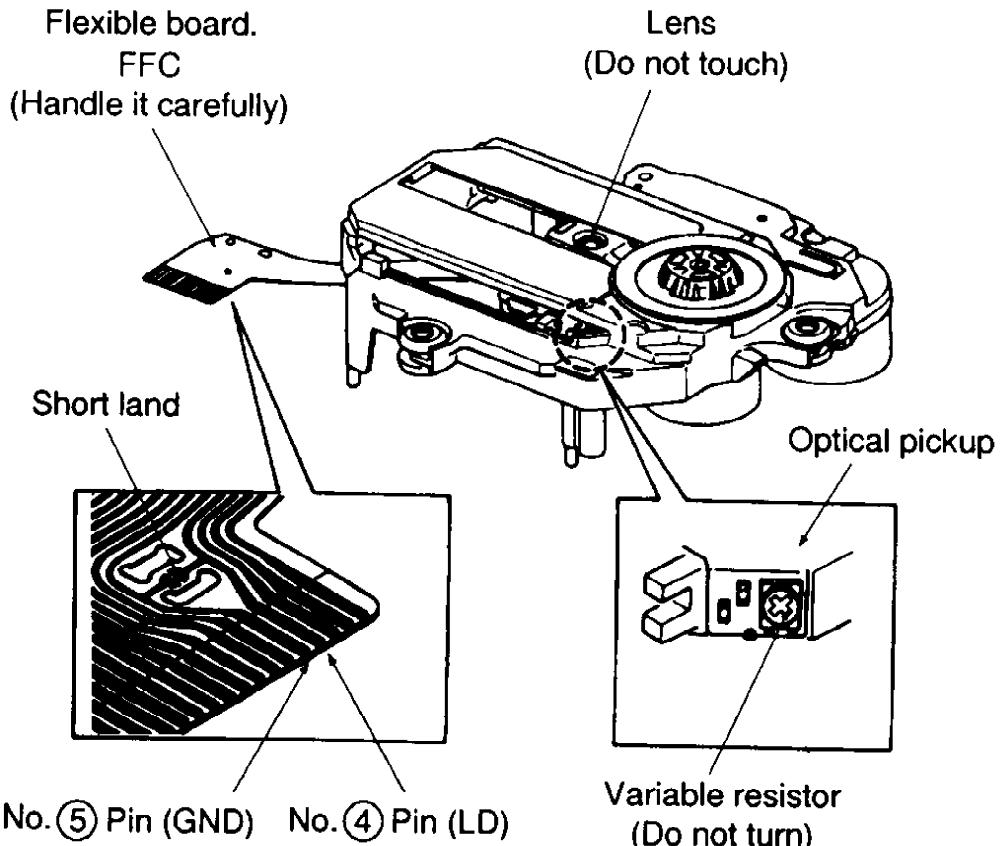
The laser diode in the traverse deck (optical pickup) may break down due to potential difference caused by static electricity of clothes or human body.

So, be careful of electrostatic breakdown during repair of the traverse deck (optical pickup).

- Handling of traverse deck (optical pickup)

1. Do not subject the traverse deck (optical pickup) to static electricity as it is extremely sensitive to electrical shock.
2. The short land between the No.4(LD) and No.5(GND) pins on the flexible board (FFC) is shorted with a solder build-up to prevent damage to the laser diode. To connect to the PC board, be sure to open by removing the solder build-up, and finish the work quickly.
3. Take care not to apply excessive stress to the flexible board (FFC).
4. Do not turn the variable resistor (laser power adjustment). It has

already been adjusted.



- Grounding for electrostatic breakdown prevention

1. Human body grounding

Use the anti-static wrist strap to discharge the static electricity from your body.

2. Work table grounding

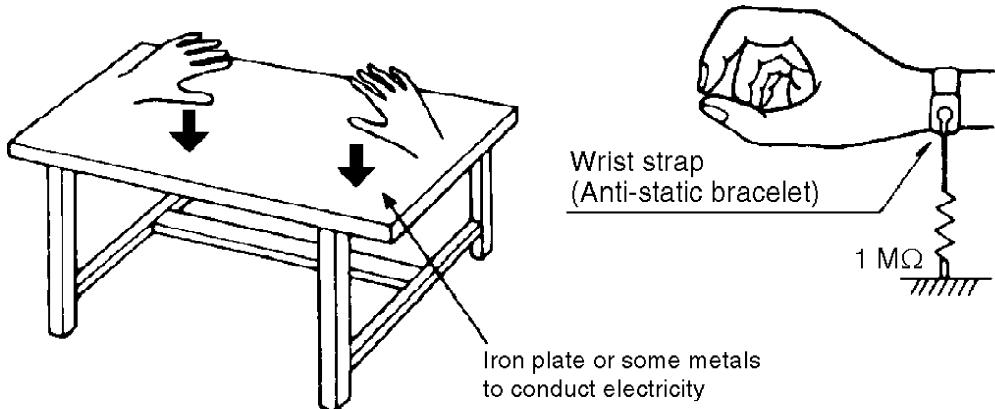
Put a conductive material (sheet) or steel sheet on the area where the traverse deck (optical pickup) is placed, and ground the sheet.

Caution :

The static electricity of your clothes will not be grounded through the wrist strap. So, take care not to let your clothes touch the traverse deck (optical pickup).

Caution when Replacing the Traverse Deck :

The traverse deck has a short point shorted with solder to protect the laser diode against electrostatics breakdown. Be sure to remove the solder from the short point before making connections.



4. Precaution of Laser Diode

CAUTION:

This unit utilizes a class 1 laser.

Invisible laser radiation is emitted from the optical pickup lens.

When the unit is turned on:

1. Do not look directly into the pick up lens.
2. Do not use optical instruments to look at the pick up lens.
3. Do not adjust the preset variable resistor on the pickup lens.
4. Do not disassemble the optical pick up unit.
5. If the optical pick up is replaced, use the manufacturer's specified replacement pick up only.
6. Use of control or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION!

THIS PRODUCT UTILIZES A LASER.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN TH
SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

5. OWNERS MANUAL

6. DISASSEMBLY INSTRUCTIONS

6.1. Removing the top cabinet

(Step 1)

Remove the 8 screws A. (refer to [Figure-1](#)).

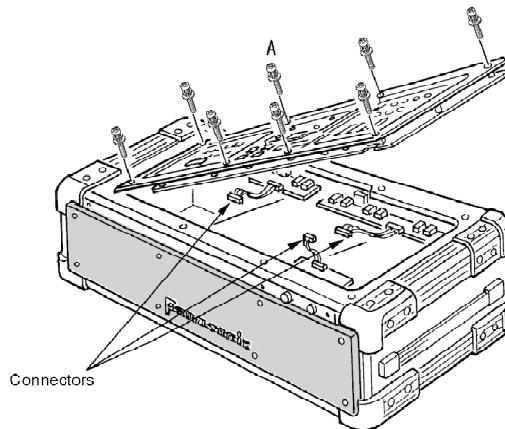
(Step 2)

Remove the top cabinet assy. (refer to [Figure-1](#)).

(Step 3)

Release the 3 connectors of binding cables on each P.C.B. (refer to [Figure-1](#)).

Figure-1



6.2. Removing the MAIN P.C.B. and CPR P.C.B.

- Follow the item 6.1.
- Release the connectors of the P.C.B..

MAIN P.C.B.(Step 1)

Remove the 4 screws A. (refer to [Figure-2](#)).

(Step 2)

Remove the MAIN P.C.B..

CPR P.C.B.(Step 1)

Remove the 8 screws B. (refer to [Figure-3](#)).

(Step 2)

Remove the CPR P.C.B..

(Step 3)

Release the connector of the CN2.

Figure-2

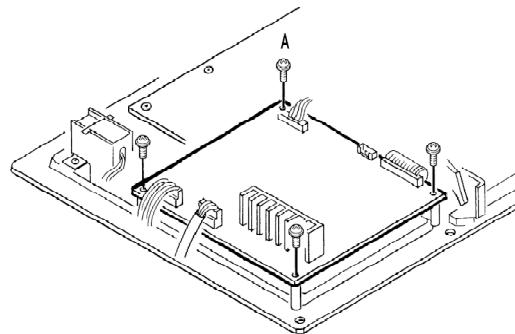
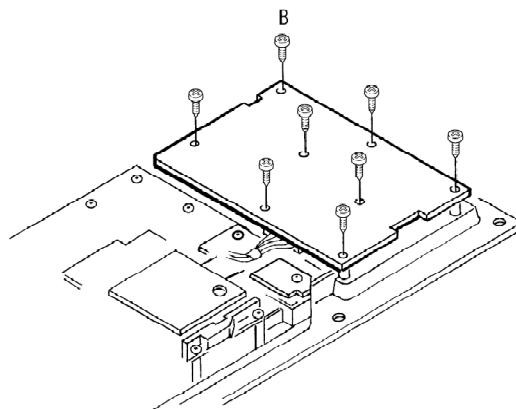


Figure-3



6.3. Removing the CPL P.C.B. and SW P.C.B.

- Follow the item 6.1.
- Remove the MAIN P.C.B. (Refer to [**Removing the MAIN P.C.B. and CPR P.C.B.**](#) .)

CPL P.C.B.(Step 1)

Remove the 17 screws A (refer to [**Figure-4**](#)).

(Step 2)

Release the 3 claws, then remove the CPL P.C.B.

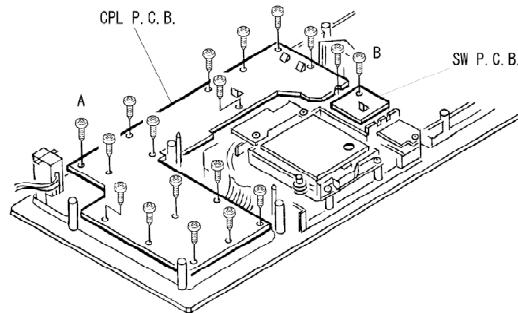
SW P.C.B.(Step 1)

Remove the screw B (refer to [**Figure-4**](#)).

(Step 2)

Release the claw, then remove the CPL P.C.B.

Figure-4



6.4. Changing the traverse deck assy.

- Follow the item 6.1.

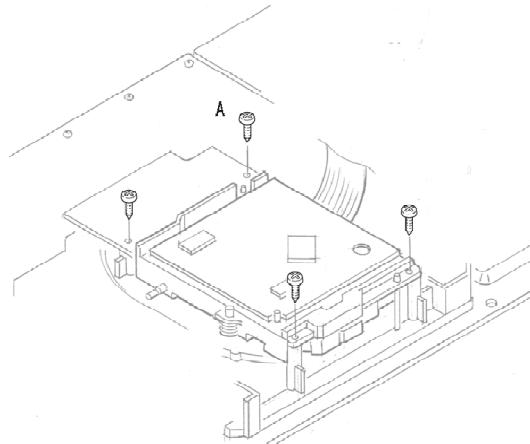
(Step 1)

Remove the 4 screws A (refer to [Figure-5](#)).

(Step 2)

Remove the FCC, and remove the traverse deck assy. (refer to [Figure-5](#)).

Figure-5



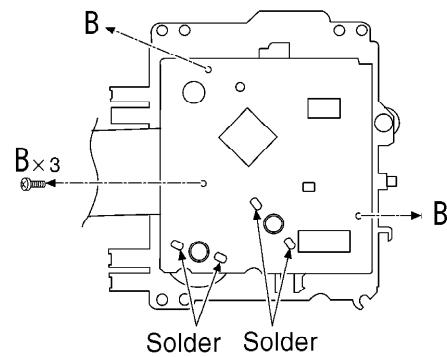
(Step 3)

Remove the 3 screws B (refer to [Figure-6](#)).

(Step 4)

Unsolder the motor terminal (4 points)(refer to [Figure-6](#)).

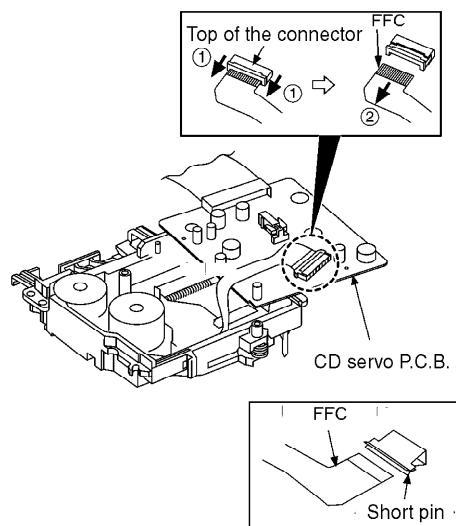
Figure-6



(Step 5)

Remove the FFC from the connector and CD servo P.C.B.(refer to [Figure-7](#)).

Figure-7



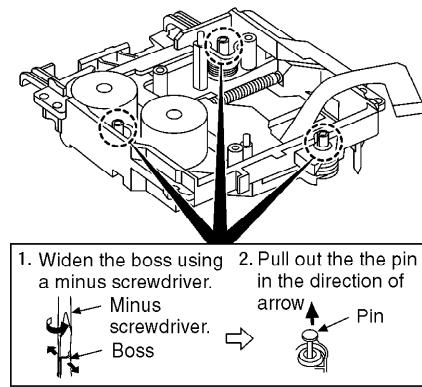
NOTE

Clip FFC of optical pick up with short pin (refer to [Figure-7](#)).

(Step 6)

Remove the 3 Pins(refer to [Figure-8](#)).

Figure-8



(Step 7)

Release the claw, and then remove the traverse deck assy..

Figure-9

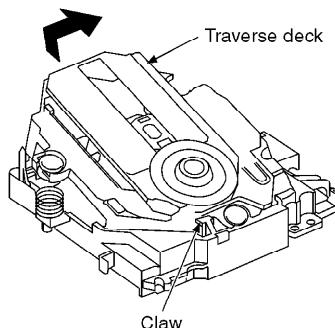
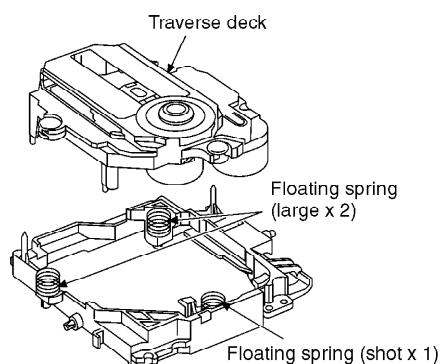


Figure-10



Note

Be careful not to lose the 3 springs because those will also be removed on removal of the traverse deck assy.

Figure-11

Installation of the CD servo P.C.B. after replacement

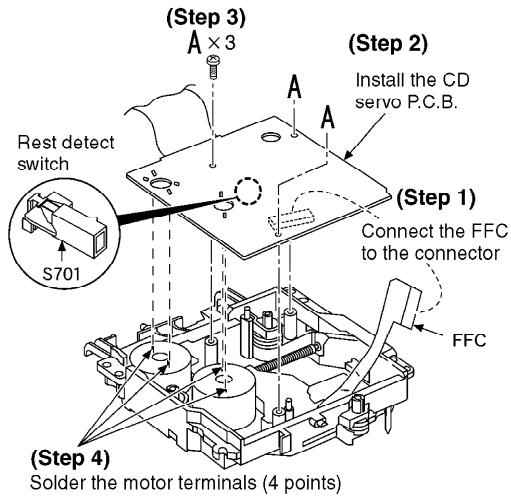
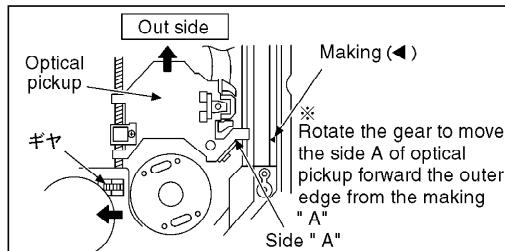


Figure-12

[NOTE]

Before installing the CD servo P.C.B., move the optical pickup toward the outer edge from the mark "◀".
[Otherwise, the rest detect switch (S701) mounted on the CD servo P.C.B. may be damaged.]



6.5. Removing the CD lid

- Follow the item 6.1.

(Step 1)

Press the CD eject button to open the CD lid.

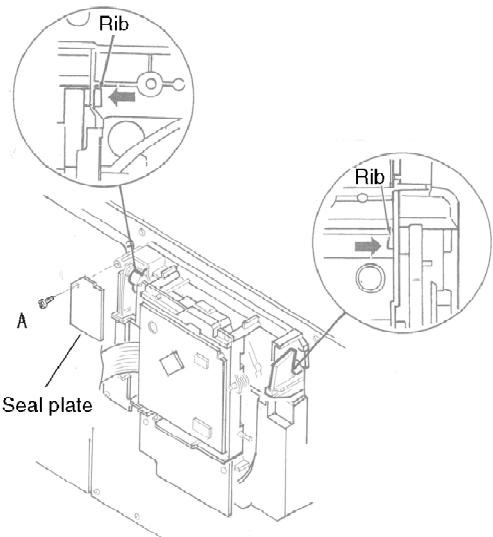
(Step 2)

Remove the screw A and remove the seat plate.

(Step 3)

While holding the CD lid half-closed, release the ribs (2 points) (refer to [Figure-13](#)).

Figure-13



6.6. Removing the ACP P.C.B.

- Follow the item 6.1.

(Step 1)

Remove the 2 screws and remove the ACP cover.

(Step 2)

Remove the ACP P.C.B mounting screws (A x 2) and release the 2 connectors (refer to [Figure-14](#)).

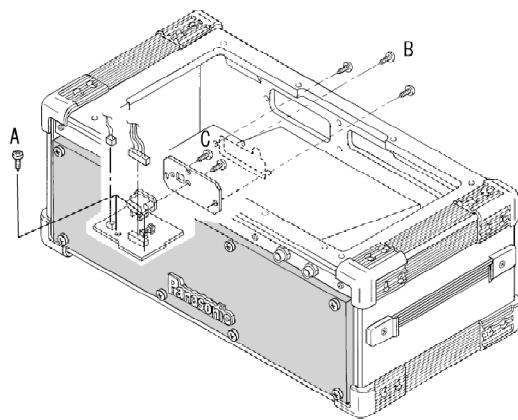
(Step 3)

Remove the ACP panel mounting screws (B x 3) (refer to [Figure-14](#)).

(Step 4)

Remove the 2 screws C fixing the ACP panel to the ACP P.C.B. (refer to [Figure-14](#)).

Figure-14



6.7. Removing the power transformer

(Step 1)

Follow the item 6.1. (Refer to "[Removing the top cabinet](#) ")

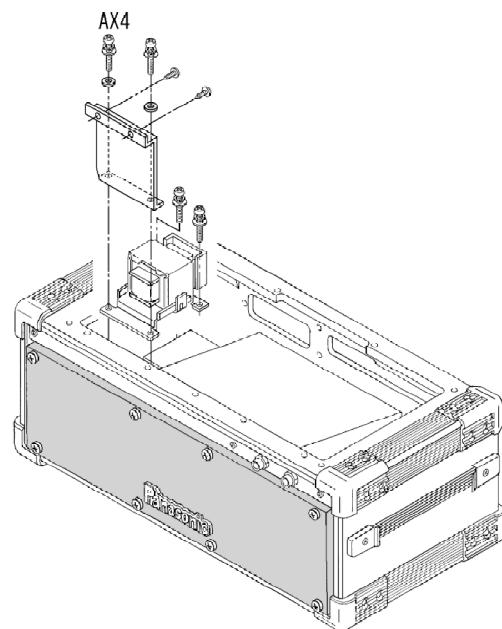
(Step 2)

Remove the 4 screws A (refer to [Figure-15](#)).

(Step 3)

Remove the power transformer.

Figure-15



6.8. Removing the JACK3 P.C.B.

- Follow the item 6.1.

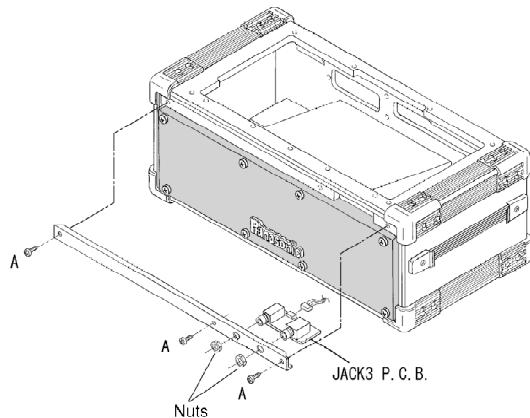
(Step 1)

Remove the front panel mounting screws (A x 3) (refer to [Figure-16](#)).

(Step 2)

Remove the GUITER/MIC jack and the PHONE jack fixing nuts, and remove the JACK3 P.C.B. (refer to [Figure-16](#)).Nuts

Figure-16



6.9. Removing the Jack1, 2 P.C.B.

- Follow the item 6.1.

(Step 1)

Remove the rear panel mounting screws (A x 7) (refer to [Figure-17](#)).

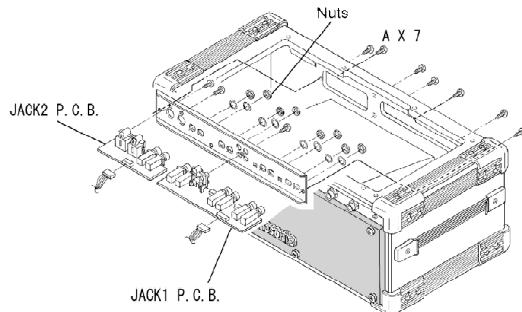
(Step 2)

Remove the INPUT jack and the LINEOUT1 jack fixing nuts, and remove the JACK1 P.C.B. (refer to [Figure-17](#)).

(Step 3)

Remove the FOOT SW jack fixing nut, and remove the JACK2 P.C.B. (refer to [Figure-17](#)).

Figure-17



6.10. Removing the speakers (woofer, full range)

- Remove the 8 screws A and remove the speaker net (refer to [Figure-18](#)).

Woofer speaker(Step 1)

Remove the 2 screws B and remove the middle pannel (refer to [Figure-19](#)).

(Step 2)

Remove the 4 screws C and remove the woofer speaker (refer to [Figure-20](#)).

Full range speakers(Step 1)

Remove the 2 screws D and remove the left pannel (refer to [Figure-19](#)).

(Step 2)

Remove the 2 screws E and remove the right pannel (refer to [Figure-19](#)).

(Step 3)

Remove the 8 screws F and remove the 2 full range speakers (refer to [Figure-20](#)).

Figure-18

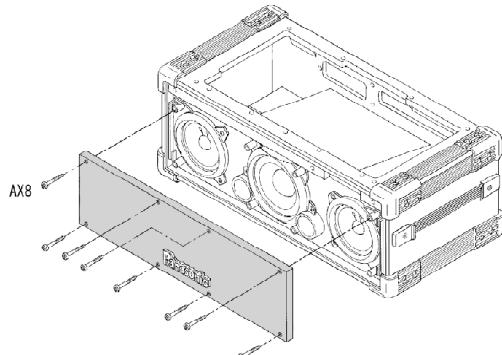


Figure-19

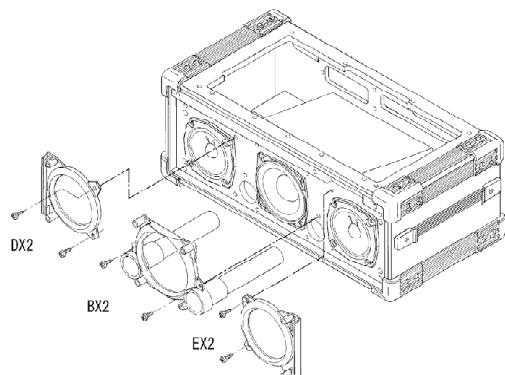
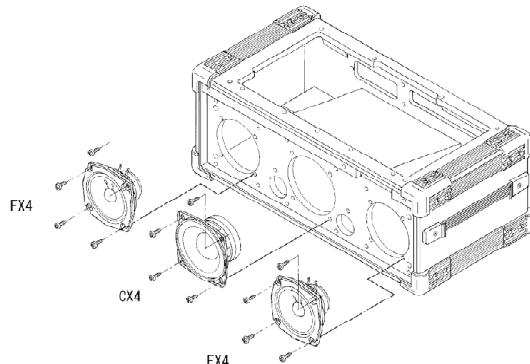


Figure-20



7. Checking P.C.B. Operation

When measuring the voltages, etc. of P.C.B.s, follow the procedure below to replace the existing cables with extension cables that allow for live troubleshooting.

1. Remove the top panel from the cabinet (refer to "[Removing the top cabinet](#) ").
2. Release the cable from the JACK2 P.C.B, CN301, to the MAIN P.C.B.,CN3, and replace the it with extension cable A (refer to "[Removing the MAIN P.C.B. and CPR P.C.B.](#) ").
3. Release the cable from the CPR P.C.B.,CN1 and CN3, to the JACK1 P.C.B.,CN1, and the JACK3 P.C.B.,CN3, and replace the it with extension cable B and C.
4. Release the cable from the MAIN P.C.B.,CN1,CN2, to the CPL P.C.B.,CN1, and the CPR P.C.B.,CN2, and replace the it with extension cable E and D.

List of Extension Cables

A : QEXGSS08065A

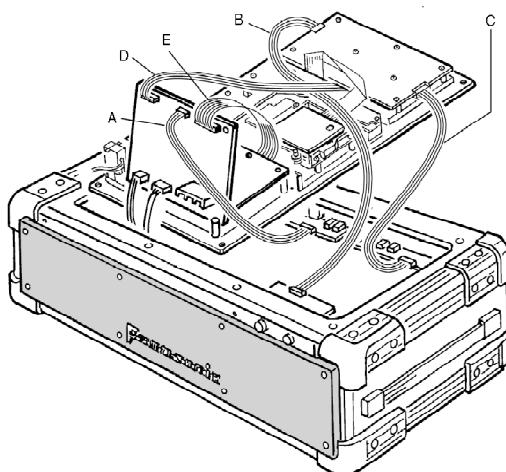
B : QEXGSS06090A

C : QEXGSS12050A

D : QEXGSS14060A

E : RFKZ0119

Figure-21



8. SERVICE DIAGNOSTIC FUNCTION

This unit is equipped with a self-diagnostic function.

1. Trouble finding of the "CD unit"
2. Checking for the "CD control micro tip" and its operating switchs and the LCD.
3. Checking for the "Rhythm control micro tip" and its operating switchs and the LCD.
 - Refer to the following self-diagnostic displays for the details.
 - When finishing each self-diagnostic and to return to the previous mode, turn the unit power off.

8.1. Trouble finding display of CD unit

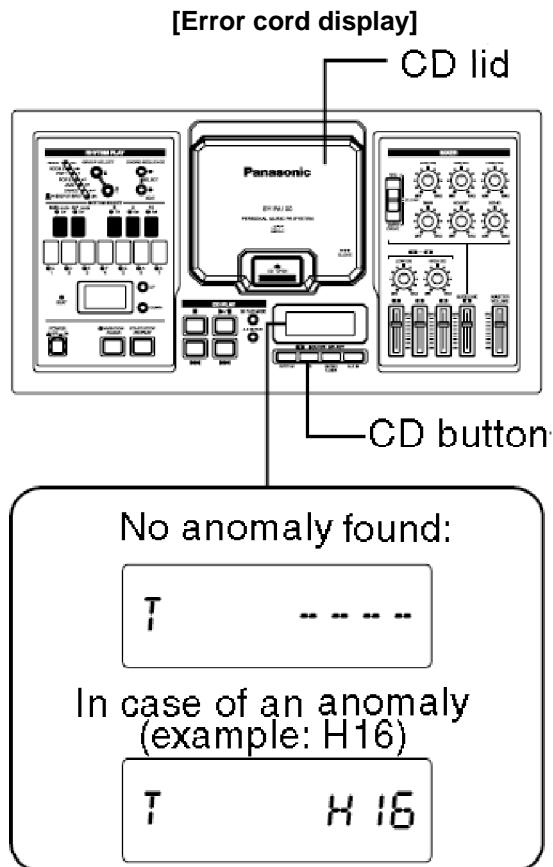
1. Turn the power on.
2. Select "CD" from the SOURCE SELECT section.
3. Press and hold the [■] button for at least two seconds, and while still pressing it, press the [▶▶] button simultaneously andhold them for at least two seconds.
4. A "T" will appear on the display.
If the "T" incication does not appear, redo the procedure from Step 1.

5. Open once the CD lid and close it immediately.

6. Press the [■] button.

If there is an anomaly, the error code appears on the display as indicated below.

If there is no anomaly, the display remain still "T", no additional indication appears.

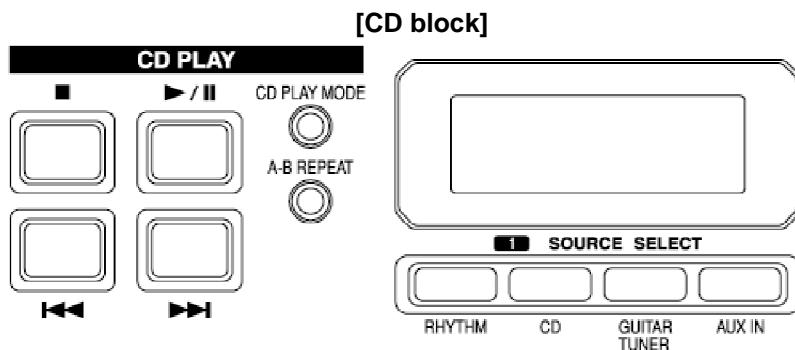


Indication	Symptom or condition	Cause
H16	CD does not play.	CD cover closed detection switch is faulty.
F15	It takes excessive time for a CD play.	Optical pick-up inner circumference position detection switch is faulty.
F26	In the Cd mode, "F26" is displayed and the CD does not play.	Signal transfer anomaly between CD servo IC and the tip.
F75	While a CD is loaded, "NO DISK" is displayed and the CD does not play.	Power supply line for CD servo P.C.B. has an anomaly.

8.2. Self-diagnostic procedure of the CD unit control tip

1. Turn the power on.

2. Select "GUTER TUNER" from the "SOURCE SELECT" section.
3. Press and hold the [■] button for at least two seconds, and while still pressing it, press the [▶▶] button simultaneously and hold them for at least two seconds.
4. The LCD completely turns off.



item to check	operation	Display/Result
LCD in the CD block	Turn each "CD PLAY" and "SOURCE SELECT" buttons on.	The segments corresponding to each button turns on.
	Turn all the buttons on.	All the LCD turn on...Check the indications of each LCD.

8.3. Self-diagnostic procedure of the rhythm micro-computer

1. While pressing the two select buttons [<▲] and [<▼>] simultaneously, turn the power on.
2. Select "RHYTHM" from the "SOURCE SELECT" section.
3. Using the UP/DOWN button next to the 7-segment display, change the page of the self-diagnostic display. (Display 1 to 9)
 - The self-diagnostic display page is indicated in 3rd digit of the 7-segment display, and self-diagnostic result will be indicated in last 2 digits.

Page	check item	operation	Display/Result
1	Sine wave output level	Rhythm button "1" on	LED lights/ocilated by a sound level 16dB
		Rhythm button "7" on	LED lights/ocilated by a full sound level
2	Sine wave sweep output	START/STOP button on	Applicable from 20 Hz to 12.5kHz
3	Switches and LED (Don't operate the UP and DOWN buttons that change the display page.)	UP button of GROUP SELECT on	Upper 3 Rhythm LEDs turn on.
		DOWN button of GROUP SELECT on	Lower 4 Rhythm LEDs turn on.
		SELECT button of CHORD SEQUENCE on	LED turns on
		EDIT button in CHORD SEQUENCE on	LED turns on
		BASS OFF/ON on	LED turns on
		UP button of ACP OFF/ON on	LED turns on
		Each RHYTHM SELECT button on	Each LED turns on
		UP or DOWN button (avoid operating)	(no reaction)
		VARIATION/CLEAR button on	LED turns on
		START/STOP/REPEAT button on	BEAT LED turns on
4	Foot switch	START/STOP of the connected foot switch on	"1" displayed in the first digit
		VARIATION of the connected foot switch on	"2" displayed in the second digit
5	Flash ROM	START/STOP button on	First digit of display: "0" indicate normal, "-" faulty
6	EER PROM	START/STOP button on	First digit of display: "0" indicate normal, "-" faulty
7	RAM	START/STOP button on	First digit of display: "0" indicate normal, "-" faulty
8	MIDI IN/OUT	After connecting MIDI IN and OUT, START/STOP button on	First digit of display: "0" indicate normal, "-" faulty
9	GUITAR TUNER	After connecting MASTER output to GUITAR/MIC input, START/STOP button on	An examinatiorial sweep starts automatically, the estimation of the correspondent pitch will be displayed

9. PRECAUTIONS BEFORE SERVICING

9.1. Precautions for measuring of the output waveforms

1. The waveform was measured with a “National Digital Storage Oscilloscope VP-5730A”. Therefore the waveforms of musical tone signals shown may differ somewhat due to the difference in the timing of triggering.
2. Since the 1/10 test probe is used, the indicated voltage value on

the bottom part of each waveform illustration is 1/10 of the actual value (e.g. 0.2 V/cm should be 2.0 V/cm).

3. To measure the waveforms, first set this unit to the service diagnostic mode (refer to “Wave ROM test on **SERVICE DIAGNOSTIC FUNCTION** ”). The WAVE ROM output will then be output as sine wave to facilitate the servicing check.

9.2. Important safety notice

- Components identified by a  mark have special characteristics important for safety.
- When replacing any of these components, use only manufacturer's specified parts.

9.3. Symbolic marks

The symbolic marks for resistors and capacitors which used in this circuits are classified as following [Table-1](#) and [Table-2](#).

9.3.1. Resistors

- Resistors without symbolic mark are **FIXED CARBON FILM RESISTORS (ERD-type)**.
- All resistors are **1/4 WATT, ±5 % TOLERANCE** unless otherwise designated in schematic diagrams.

Table-1

SYMBOL	SPECIFICATION
	Fixed Carbon Film Resistors “FLAME-PROOF” (ERD—F—type)
	Fixed Wire Wound Resistors “FLAME-PROOF” (ERF—type)
	Fixed Metal Oxide Film Resistors “FLAME-PROOF” (ERG—type)
	Fixed Metal Film Resistors “FLAME-PROOF” (ERX—type)
	Fixed Metal Film Resistors (Precision and High Stability) (ERO—type)
	Fuse Type Fixed Metal Oxide Film Resistors “FLAME-PROOF” (ERQ—type)
	Fuse Type Fixed Carbon Film Resistors “FLAME-PROOF” (ERD2FC—type)

9.3.2. Capacitors

- Capacitors without symbolic mark are **POLYESTER CAPACITORS**.

(ECQM-type, ECQG-type, ±10% Tolerance)

- Polarized capacitors without symbolic mark are Aluminum Electrolytic Capacitors. (ECEA-type, ±20% Tolerance)

Table-2

SYMBOL	SPECIFICATION	TYPE
	Non-Polarized Electrolytic Capacitors	ECEA_KN_type
	Non-Polarized Electrolytic (for Network system)	ECEA_Y_type
	Tantalum Solid Electrolytic Capacitors	ECS_type
	Metallized Plastic Film Capacitors (TF Series)	ECQV_type
	Temperature Compensating Ceramic Capacitors	ECC_type
	High-Dielectric Constant Ceramic Capacitors	ECK_type, ECR_type
	Axial Lead Ceramic Capacitors	ECB_type
	Metallized Polyester Film Capacitors for Across the Line	ECQ_EW_type
	Aluminum Electrolytic Capacitors for Smoothing Circuit	ECES_type
	Multilayer Ceramic Chip Capacitors	ECUV_type

10. Voltage Chart

10.1. MAIN P.C.B.

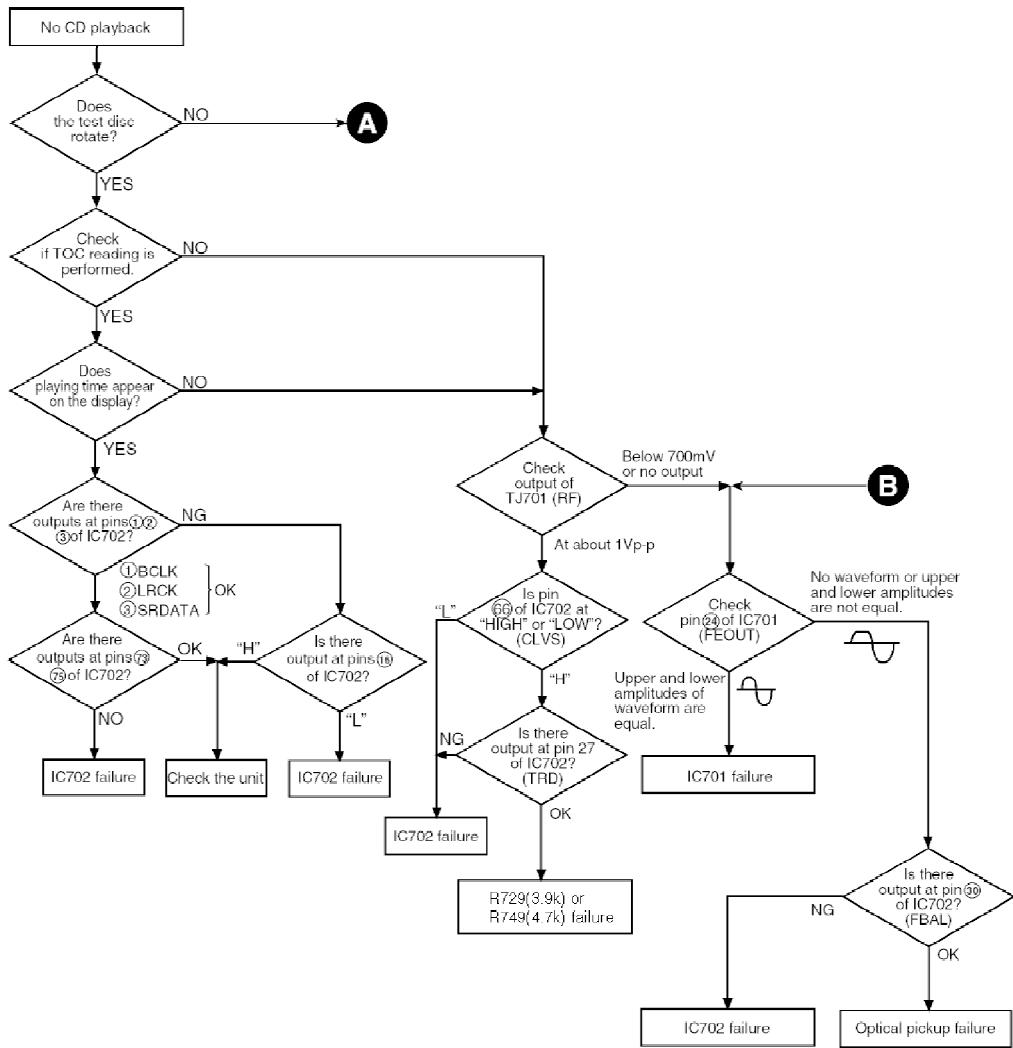
10.2. CPR P.C.B.

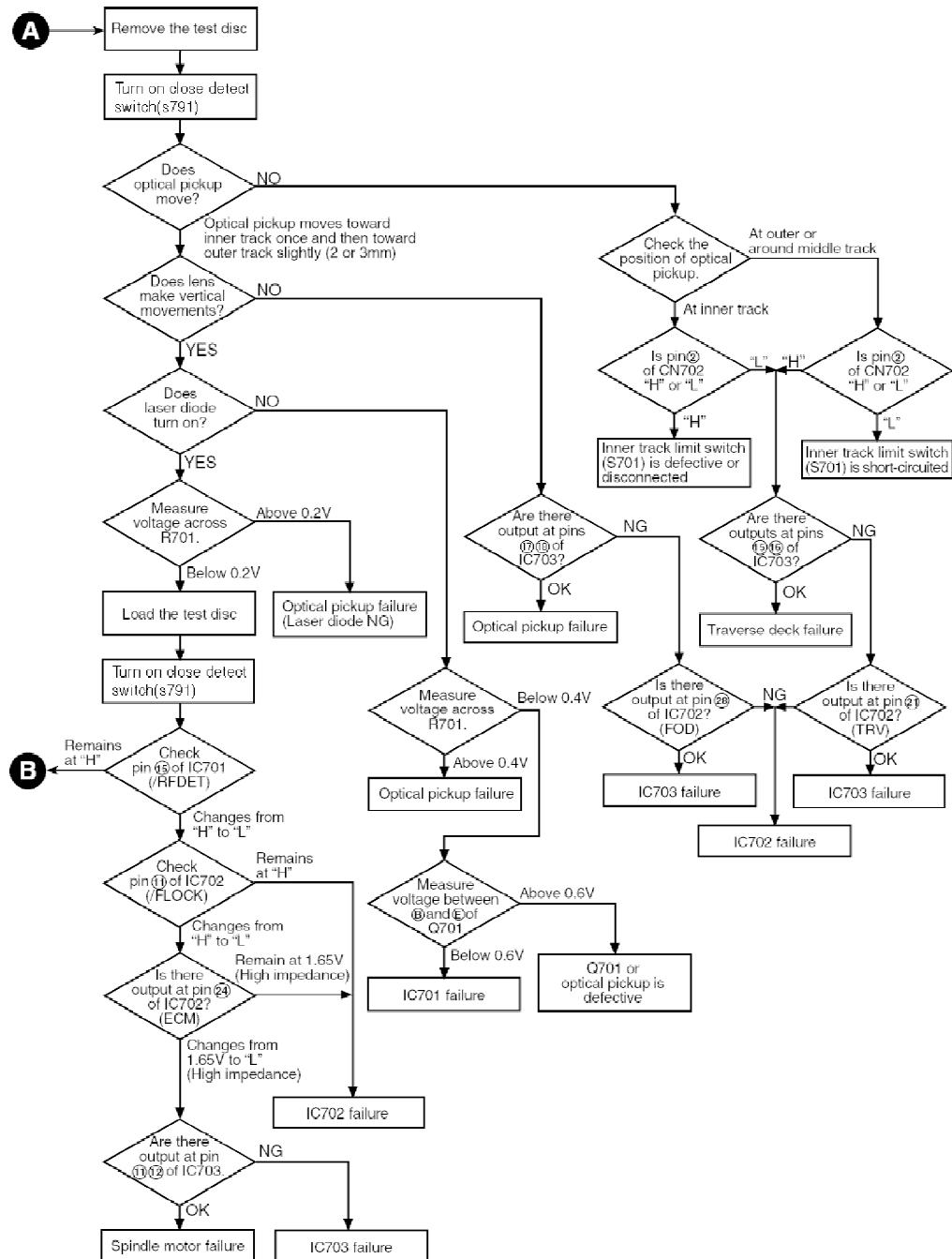
10.3. CPL P.C.B.

10.4. JACK 1,2 P.C.B.

10.5. CD SERVO P.C.B.

11. Troubleshooting Guide

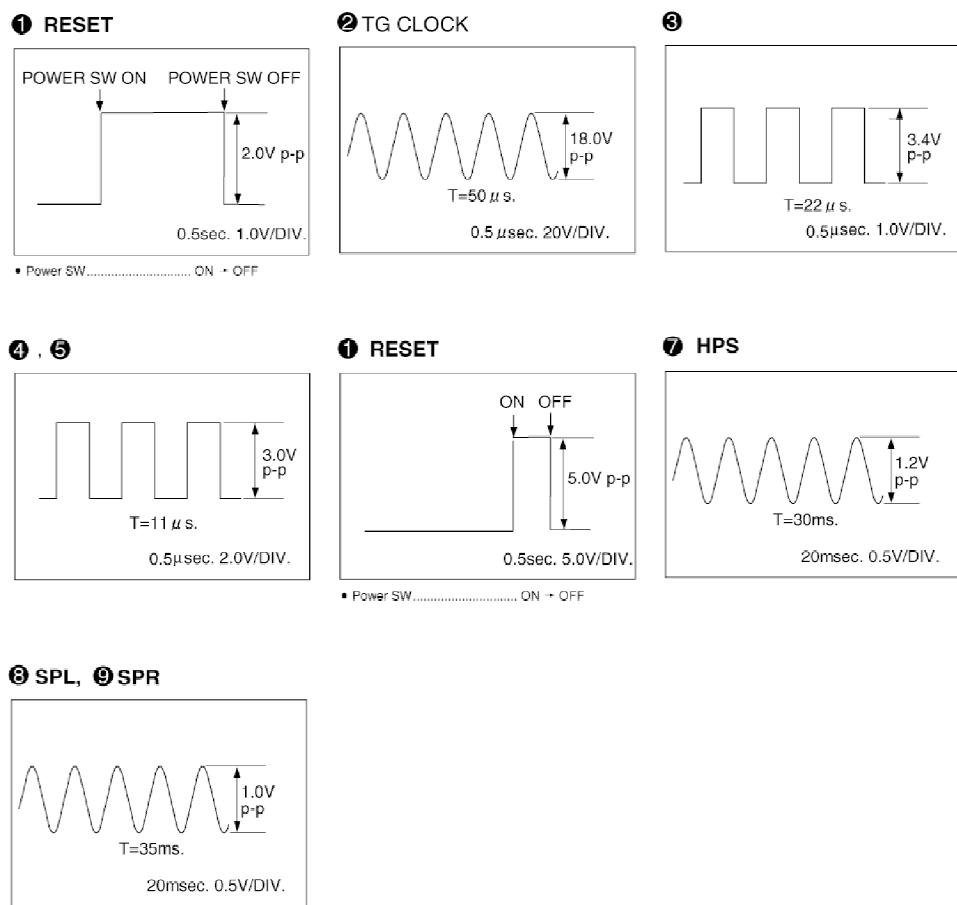




12. MEASURING CONDITION

12.1. Measuring condition of MAIN P.C.B.

Check Point 1 - 9



13. SCHEMATIC DIAGRAM

14. PRINTED CIRCUIT BOARD

15. BLOCK DIAGRAM

16. WIRING CONNECTION DIAGRAM

17. REPLACEMENT PARTS LIST

Notes:

*Important safety notice:

Components identified by \triangle mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufacture's specified parts shown in the parts list.

*Warning: This product uses a laser diode. Refer to caution statements.

*ACHTUNG: Die Lasereinheit nicht zerlegen. Die Lasereinheit darf nur gegen eine vom Hersteller spezifizierte Einheit ausgetauscht werden.

*Capacity values are in microfarads (uF) unless specified otherwise. P=Pico-farads (pF), F=farads (F)

*Resistance values are in ohms, unless specified otherwise. 1K=1,000 (OHM), 1M=1,000K (OHM)

*The marking <RTL> indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

**<IA>"-"<><IH>" marks in Remarks indicate languages of instruction manuals. [<IA>: Dansk, <IB>: English, <IC>: Chinese, <ID>: French, <IE>: Germany, <IF>: Italiano, <IG> : Espanol, <IH>: Nederlands]

*MAIN, CPL, CPR, JACK1, JACK2, JACK3, ACP, SW, and CD SERVO in Remarks indicate the Circuits and P. C. B.s. If the same Ref. No. is found in the replacement parts list, check those indications in the Remarks.

*All parts are supplied by SPC.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
<u>1</u>	QGNGPA100AA	NAME PLATE	1	GN
1	QGNGPA100CA	NAME PLATE	1	PC
1	QGNGPA100EA	NAME PLATE	1	EX EB EQ EG EF
1	QGNGPA100MA	NAME PLATE	1	PPL
1	QGNGPA100SA	NAME PLATE	1	GU GM GT GH
<u>2</u>	QKHG002AA	KNOB	1	
<u>3</u>	QMAG0280AA	AC IN METAL	1	P PC EX EB EQ EG EF GN PL
3	QMAG0280BA	AC IN METAL	1	GU GM GT GH
<u>4</u>	QMAG0281AA	FRONT JACK PANEL	1	
<u>5</u>	QMAG0282AA	REAR JACK PANEL	1	
<u>6</u>	QMRG2108AA	ACP COVER	1	
<u>7</u>	QTPG1M059A	POWER TRANSFORMER	1	▲ G4C6AED00003 P PC PL
7	QTPG1M060A	POWER TRANSFORMER	1	▲ G4C6AEK00005 EXCEPT P PC PL
<u>8</u>	L0AA14A00008	14CM SPEAKER	1	
<u>9</u>	QASG12P07A	12CM SPEAKER	2	
<u>10</u>	QXAG004AA	SPEAKER NET UNIT	1	
<u>16</u>	QYKG293AAZK	SP BOX	1	
<u>17</u>	RGK0954-H	CORNER PROTECTOR	8	
<u>18</u>	RGK0955-H	SIDE PROTECTOR	4	
20	XTB35+14A	SCREW	12	
21	XTB35+14AFZ	SCREW	6	
22	XTB4+16AFZ	SCREW	32	
23	XTB4+40AFZ	SCREW	8	
<u>24</u>	QEUGMKW18DZ1	FFC CABLE (19P)	1	
<u>25</u>	QEUGMSW1806C	FFC CABLE (26P)	1	
<u>26</u>	QPGP0158AB	CONTROL PANEL	1	
<u>27</u>	QGUG1040AA	BUTTON POWER	1	
<u>28</u>	QGUG1509AA	OPERATION BUTTON (LU)	2	
<u>29</u>	QGUG1509BA	OPERATION BUTTON (LU1)	1	
<u>30</u>	QGUG1509CA	OPERATION BUTTON (LU2)	1	
<u>31</u>	QGUG1510AA	OPERATION BUTTON (LC1)	1	
<u>32</u>	QGUG1511AA	OPERATION BUTTON (LC2)	1	
<u>33</u>	QGUG1512AA	OPERATION BUTTON (LL)	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
34	QKWG042AA	LED PANEL	1	
35	QKWG043AA	LCD PANEL	1	
36	QMBG031AA	EJECT LEVER SPRING	1	
37	QMRG2092AA	PW SW COVER	1	
38	RDG0183	GEAR	1	
39	RGU1583-1S	OPERATION BUTTON (CR)	1	
40	RGU1584-1S	OPERATION BUTTON (CL)	1	
41	RGV0220-1S1	GUITER MODE KNOB	1	
42	RML0529	LEVER	1	
43	SBNG4010A	VOLUME KNOB	8	
44	SBNG7031A	VOL KNOB	5	
45	SHRG1170A	SK BIND	5	
46	XTV3+10G	SCREW	36	
47	XTWS3+8T	SCREW	1	
48	QSPG1010AA	SW POWER	1	
49	RKF0535-1S1	CD COVER	1	
50	RGU1585-1S	CD EJECT BUTTON	1	
51	RMB0509-1	CLAMPER SPRING	1	
52	RME0201	CD OPEN SPRING	1	
53	SNEG770A	WASHER	10	
54	XNS12FZ	NUT	8	
55	RMN0455	LCD HOLDER	1	CPL
56	XNSS12FN	NUT	2	
57	XSS4+40FC	SCREW	2	
58	XTB35+12A	SCREW	2	
59	XTV3+10G	SCREW	2	
60	XTW3+16JFZ	SCREW	10	
61	XYN4+F16FZ	SCREW	4	
62	XYN4+J14FZ	SCREW	8	
63	XTB3+10GFZ	SCREW	5	
64	XTB35+16AFZ	SCREW	3	
65	XTV3+10C	SCREW	4	MAIN
66	RGL0381-Q	ORNAMENT	1	CPL
67	QQLG188AA	FFC LABEL	1	P
100	RFKNXDT39GCK	CD HOLDER ASS'Y	1	
101	RAE0152Z-3	TRV DECK ASS'Y	1	RAD3301A-C
102	RAF0150A-4S	OPTICAL PICK UP	1	RAD3301A-C
103	RDG0247	DRIVE GEAR	1	RAD3301A-C
104	RDG0248	INTERMEDIATE GEAR	1	RAD3301A-C
105	RXQ0339	TRAVERSE MOTOR ASS'Y	1	RAD3301A-C
106	RXQ0304-1	NUT PLATE ASS'Y	1	RAD3301A-C
107	SHGD113-1	RUBBER	3	RAD3301A-C
108	SNSD38	SCREW	2	RAD3301A-C
109	XQN17+CG5	SCREW	1	RAD3301A-C
110	XQS2+A3FZ	SCREW	2	RAD3301A-C
111	RME0109	FLOATING SPRING(1)	2	RAD3301A-C
112	RME0142	FLOATING SPRING(2)	1	RAD3301A-C
113	RMR0698-K1	TRV CHASSIS	1	RAD3301A-C
114	RMS0627	PIN	3	RAD3301A-C
115	XTN2+6G	SCREW	1	RAD3301A-C
116	XTV2+6G	SCREW	2	RAD3301A-C
A1	QQFGPA100BA	FANBAG UNIT	1	P
A1	QQFGPA100CA	FANBAG UNIT	1	PC

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
A1	QQFGPA100DA	FANBAG UNIT	1	EX GT GH PL
A1	QQFGPA100EA	FANBAG UNIT	1	GN GM
A1	QQFGPA100FA	FANBAG UNIT	1	EG
A1	QQFGPA100GA	FANBAG UNIT	1	EF
A1	QQFGPA100HA	FANBAG UNIT	1	GU
A1	QQFGPA100JA	FANBAG UNIT	1	EB
A2	QQTG0647A	INSTRUCTION MANUAL 1	1	P<IB>
A2	QQTG0648A	INSTRUCTION MANUAL 1	1	PC EB GN GM<IB>
A2	QQTG0649A	INSTRUCTION MANUAL 1	1	EG EF<IE IG IH>
A2	QQTG0650A	INSTRUCTION MANUAL 1	1	EX GU GT GH PL<IA IC IG>
A2	QQTG0651A	INSTRUCTION MANUAL 1	1	EQ<IE>
A2	QQTG0648A	INSTRUCTION MANUAL 2	1	EX GU GT GH PL<IB>
A2	QQTG0649A	INSTRUCTION MANUAL 2	1	PC<IE IH IG>
A2	QQTG0651A	INSTRUCTION MANUAL 2	1	EG<IE>
A3	K2CB2CB0006	AC CORD	1	▲ P PC PL
A3	RJA0035-1X	AC CORD	1	▲ GN
A3	SJAG65	AC CORD	1	▲ K2CR2ED00001 EX EQ EG EF GU GM GT
A3	VJA0733	AC CORD	1	▲ K2CT3DA00001 EB GH
A4	QQCG0423A	REFERENCE GUIDE	1	
A5	VJP2974	ATTCHMENT PLUG	1	▲ K2DA42E00001 GU GT
A6	SQFG9890	SURVICE CENTER CARD	1	P
C1	ECEA1HKN010	50V 1U	1	CPR
C1	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K MAIN
C1	ECUV1H102JCV	35V 0.001P	1	CPL
C2	ECEA1CKN100	50V 1U	1	CPR
C2	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K MAIN
C2	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K CPL
C3	ECEA1CKA100	16V 10	1	CPL
C3	ECJ1VG1H470J	35V 47P	1	CPR
C3	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K MAIN
C4	ECEA1CKA470	16V 47PF	1	CPR
C4	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K MAIN
C4	ECUV1H820JCV	35V 82P	1	ECJ1VC1H820J CPL
C5	ECJ1VF1H224Z	10V 0.022U	1	MAIN
C5	ECJ1VG1H221J	220P	1	CPL
C5	ECUV1H101JCV	35V 100P	1	ECJ1VC1H101J CPR
C6	ECEA1HKN010	50V 1U	1	CPR
C6	ECJ1VG1H221J	220P	1	CPL
C6 C7	ECUV1C104KBV	35V 0.1P	2	ECJ1VB1C104K MAIN
C7	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K CPR
C7	ECUV1H820JCV	35V 82P	1	ECJ1VC1H820J CPL
C8	ECQB1H103JZ	50V 0.1U	1	CPR
C8	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K MAIN
C8	ECUV1H103KBV	35V 0.01P	1	ECJ1VB1H103K CPL
C9	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K MAIN
C9	ECUV1H103KBV	35V 0.01P	1	ECJ1VB1H103K CPL
C9	ECUV1H471JV	35V 470P	1	ECJ1VG1H471J CPR
C10	ECJ1VG1H100D	35V 10P	1	MAIN
C10	ECJ1VG1H470J	35V 47P	1	CPR
C10	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K CPL
C11	ECJ1VG1H100D	35V 10P	1	MAIN

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C11	ECJ1VG1H470J	35V 47P	1	CPR
C11	ECUV1H103KBV	35V 0.01P	1	ECJ1VB1H103K CPL
C12	ECQG1H122KZT	120P	1	F0A1H122A025 CPR
C12	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K CPL
C12 13	ECUV1C104KBV	35V 0.1P	2	ECJ1VB1C104K MAIN
C13	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K CPL
C13	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K CPR
C14	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K MAIN
C14	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K CPR
C14	ECUV1H103KBV	35V 0.01P	1	ECJ1VB1H103K CPL
C15	ECEA1HKS0R1	50V 0.1U	1	CPL
C15	ECQG1H472KZT	470P	1	F0A1H472A025 CPR
C15	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K MAIN
C16	ECA0JM102	6.3V 1000U	1	MAIN
C16	ECUV1H101JV	50V 100P	1	CPL
C17	ECEA1CKA100	16V 10U	1	MAIN
C17	ECEA1HKS0R1	50V 0.1U	1	CPL
C17	ECUV1H681JCV	50V 680P	1	ECJ1VC1H681J CPR
C18	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K CPR
C18	ECUV1H103KBV	35V 0.01P	1	ECJ1VB1H103K CPL
C18	ECUV1H222KBV	35V 0.0022P	1	ECJ1VB1H222K MAIN
C19	ECEA1CKA100	16V 10U	1	MAIN
C19	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K CPR
C19	ECUV1H102JCV	35V 0.001P	1	CPL
C20	ECEA1CKA100	16V 10	1	CPR
C20	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K MAIN
C20	ECUV1H102JCV	35V 0.001P	1	CPL
C21	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K MAIN
C21	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K CPR
C21	ECUV1H102JCV	35V 0.001P	1	CPL
C22	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K MAIN
C22	ECUV1H101JV	50V 100P	1	CPR
C22	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K CPL
C23	ECQB1H123JF3	50V 0.012U	1	CPR
C23	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K MAIN
C24	ECQB1H683JF3	50V 0.68U	1	CPR
C24	ECRR1H104ZF1	50V 0.1P	1	F1E1H1040023 MAIN
C25	ECQG1H562KZT	50V 0.0056U	1	F0A1H562A025 CPR
C25	ECRR1H104ZF1	50V 0.1P	1	F1E1H1040023 MAIN
C26	ECQB1H273JF3	50V 0.027U	1	CPR
C27	ECJ1VG1H100D	35V 10P	1	MAIN
C27	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K CPR
C28	ECQB1H473JF3	0.047U	1	MAIN
C28	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K CPR
C29	ECEA1HKA010	50V 1U	1	MAIN
C29	ECQB1H153JF	50V 0.015U	1	CPR
C30	ECQB1H103JZ	50V 0.1U	1	CPR
C30	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K MAIN
C31	ECUV1H222KBV	35V 47P	1	ECJ1VB1H222K CPR
C32	ECEA1HKA010	50V 1U	1	MAIN
C32	ECQG1H472KZ	50V 0.0047U	1	F0A1H472A026 CPR
C33	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K CPR
C33	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K MAIN
C34	ECA1VM332	35V 3300U	1	MAIN

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C34	ECEA1HKS2R2	50V 2.2U	1	CPR
C35	ECEA1CKS330	16V 33U	1	CPR
C36 37	ECJ1VG1H220J	35V 22P	2	CPR
C38	ECQB1H103JZ	50V 0.1U	1	CPR
C38	ECQE1A104M6	0.1P	1	MAIN
C39	ECA1VM470	25V 47U	1	MAIN
C39	ECQG1H332KZ	50V 0.0033U	1	F0A1H332A026 CPR
C40	ECEA1HKS2R2	16V 2.2	1	CPR
C40	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K MAIN
C41	ECQV1H474JM	50V 0.47U	1	CPR
C41	ECUV1H222KBV	50V 0.0022U	1	ECJ1VB1H222K MAIN
C42	ECEA0JKA470	6.3V 47U	1	MAIN
C42	ECQB1H153JF	50V 0.015U	1	CPR
C43	ECUV1H101JV	50V 100P	1	MAIN
C44	ECQB1H333JF	50V 0.033U	1	CPR
C44	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K MAIN
C45	ECEA1CKN100B	16V 10U	1	MAIN
C45	ECQB1H333JF	50V 0.033U	1	CPR
C46	ECEA0JKA470	6.3V 47U	1	MAIN
C46	ECJ1VG1H330J	35V 33P	1	CPR
C47	ECEA1CKN100B	16V 10U	1	MAIN
C47	ECQG1H682KZ	50V 0.0068U	1	F0A1H682A026 CPR
C48	ECJ1VG1H220J	35V 22P	1	MAIN
C48	ECQB1H103JZ	50V 0.1U	1	CPR
C49	ECQG1H472KZ	50V 0.0047U	1	F0A1H472A026 CPR
C49 50	ECUV1C104KBV	35V 0.1P	2	ECJ1VB1C104K MAIN
C50	ECUV1H220JCV	35V 22P	1	ECJ1VC1H220J CPR
C51	ECJ1VG1H220J	35V 22P	1	MAIN
C52	ECJ1VG1H470J	35V 47P	1	CPR
C52	ECUV1H151JCV	35V 150P	1	ECJ1VC1H151J MAIN
C53	ECEA1CKA100	16V 10	1	CPR
C53	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K MAIN
C54	ECA1VM332	35V 3300U	1	MAIN
C54	ECEA1CKA100	16V 10	1	CPR
C55	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K MAIN
C56	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K CPR
C56	ECUV1H151JCV	35V 150P	1	ECJ1VC1H151J MAIN
C57	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K CPR
C58	ECQV1H683JM	50V 0.068U	1	MAIN
C58	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K CPR
C59 60	ECQV1H683JM	50V 0.068U	2	MAIN
C60	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K CPR
C61	ECQV1H683JM	50V 0.068U	1	MAIN
C61	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K CPR
C62	ECQB1H123JF3	50V 0.012U	1	CPR
C62	ECQB1H473JF3	50V 0.047U	1	MAIN
C63	ECQV1H683JM	50V 0.068U	1	CPR
C63	ECUV1H102KBV	35V 0.001P	1	ECJ1VB1H102K MAIN
C64	ECQG1H562KZT	50V 0.0056U	1	F0A1H562A025 CPR
C64	ECUV1H103KBV	35V 0.01P	1	ECJ1VB1H103K MAIN
C65	ECQB1H223JF	50V 0.022U	1	MAIN
C65	ECQB1H273JF3	50V 0.027	1	CPR
C66	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K MAIN
C67	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K MAIN

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C67	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K CPR
C68	ECQG1H472KZ	50V 0.0047U	1	F0A1H472A026 CPR
C68	ECQV1H104JM	50V 0.1U	1	MAIN
C69	ECQG1H152KZ	50V 0.0015U	1	F0A1H152A026 CPR
C69	ECQV1H104JM	50V 0.1U	1	MAIN
C70	ECEA1HKN010	50V 10U	1	MAIN
C71	ECQV1H104JM3	0.1P	1	CPR
C71 72	ECUV1C104KBV	35V 0.1P	2	ECJ1VB1C104K MAIN
C73-75	ECJ1VG1H221J	35V 220P	3	MAIN
C76	ECJ1VB1H332K	35V 0.0033U	1	MAIN
C77	ECJ1VB1H472K	35V 0.0047U	1	MAIN
C78	ECJ1VB1H332K	35V 0.0033U	1	MAIN
C79-87	ECUV1H151JCV	35V 150P	9	ECJ1VC1H151J MAIN
C90-92	ECA1VM101	25V 100U	3	MAIN
C94 95	ECQV1H105JM	50V 1U	2	MAIN
C96 97	ECA1VM470	25V 47U	2	MAIN
C98	ECQV1H105JM	50V 1U	1	MAIN
C99	ECUV1H102KBV	35V 0.001P	1	ECJ1VB1H102K MAIN
C103	ECUV1H103KBV	35V 0.01P	1	ECJ1VB1H103K MAIN
C110-14	ECUV1C104KBV	35V 0.1P	5	ECJ1VB1C104K MAIN
C115	ECUV1H104KBV	35V 0.1P	1	MAIN
C116 17	ECUV1C104KBV	35V 0.1P	2	ECJ1VB1C104K MAIN
C118 19	ECA1EM101	25V 100P	2	MAIN
C301 02	ECUV1C104KBV	35V 0.1P	2	ECJ1VB1C104K JACK2
C303	ECJ1VG1H221J	220P	1	JACK2
C304 04	ECUV1C104KBV	35V 0.1P	2	ECJ1VB1C104K JACK1
C305	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K JACK1
C306-11	ECEA1HKN010	50V 1U	6	JACK1
C312 13	ECUV1C104KBV	35V 0.1P	2	ECJ1VB1C104K JACK1
C314	ECJ1VG1H470J	35V 47P	1	JACK1
C316	ECJ1VG1H470J	35V 47P	1	JACK1
C318	ECJ1VG1H470J	35V 47P	1	JACK1
C320	ECJ1VG1H470J	35V 47P	1	JACK1
C322	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K JACK1
C399	ECRR1H104ZF1	0.1P	1	F1E1H1040023 CPL
C400	F1B2E4720001	4700P	1	ACP
C401	ECQU2A104MN	0.1UF 250V	1	ACP
C404	ECUV1C104KBV	35V 0.1P	1	ECJ1VB1C104K JACK3
C701	ECEA0JKA330I	6.3V 33U	1	RAD3301A-C
C702	ECUV1C104KBV	16V 0.1U	1	ECJ1VB1C104K RAD3301A-C
C703	ECEA0JKS101	6.3V 100U	1	RAD3301A-C
C704	ECUV1C104KBV	16V 0.1U	1	ECJ1VB1C104K RAD3301A-C
C706	ECUV1H272KBV	50V 2700P	1	RAD3301A-C
C707	ECUV1E273KBV	25V 0.027U	1	RAD3301A-C
C710	ECUV1H121KCV	50V 120P	1	RAD3301A-C
C711 12	ECUZNC104ZFV	16V 0.1U	2	F1H1C1040008 RAD3301A-C
C713	ECUV1C104KBV	16V 0.1U	1	ECJ1VB1C104K RAD3301A-C
C714	ECEA0JKS101	6.3V 100U	1	RAD3301A-C
C715	ECUV1H272KBV	50V 2700P	1	RAD3301A-C
C716	ECUV1H821KBN	50V 820P	1	RAD3301A-C
C717	ECUZNC104ZFV	16V 0.1U	1	F1H1C1040008 RAD3301A-C
C718	ECUV1A224KBV	10V 0.22U	1	F1H1A224A001 RAD3301A-C
C721 22	ECUV1H100DCV	50V 10P	2	RAD3301A-C
C723	ECEA1AKS221	10V 220U	1	RAD3301A-C

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C724	ECUVNE104MBN	16V 0.1U	1	F1J1C104A065 RAD3301A-C
C725 26	ECUV1H102KBV	50V 1000P	2	RAD3301A-C
C727 28	ECEA1HKS010	50V 1U	2	RAD3301A-C
C730	ECUZNC104ZVF	16V 0.1U	1	F1H1C1040008 RAD3301A-C
C731 32	ECEA1AKS221	10V 220U	2	RAD3301A-C
C733	ECUV1C104KBV	16V 0.1U	1	ECJ1VB1C104K RAD3301A-C
C734	ECEA1AKS221	10V 220U	1	RAD3301A-C
C735	ECUVNE104ZFN	25V 0.1U	1	F1J1E1040017 RAD3301A-C
C736 37	ECUZNC104ZVF	16V 0.1U	2	F1H1C1040008 RAD3301A-C
C738	ECUV1H103KBN	50V 0.01U	1	RAD3301A-C
C739	ECUV1H152KBV	50V 1500P	1	RAD3301A-C
C742	ECUV1E273KBV	25V 0.027U	1	RAD3301A-C
C743	ECUZNC104ZVF	16V 0.1U	1	F1H1C1040008 RAD3301A-C
C744	ECUV1E562KBV	25V 5600P	1	RAD3301A-C
C745	ECUV1H102KBV	50V 1000P	1	RAD3301A-C
C747	ECUV1H181KCV	50V 180P	1	RAD3301A-C
C749	ECUV1H222KBV	50V 2200P	1	ECJ1VB1H222K RAD3301A-C
C750	ECUVNE104MBN	16V 0.1U	1	F1J1C104A065 RAD3301A-C
C751	ECUV1C104KBV	16V 0.1U	1	ECJ1VB1C104K RAD3301A-C
C752	ECUV1H102KBV	50V 1000P	1	RAD3301A-C
C753 54	ECUV1H471KBV	50V 470P	2	RAD3301A-C
CN1	SJPG2JS120A	CONNECTOR	1	CPR
CN1	VJS1442	CONNECTOR	1	K1MN26B00001 CPL
CN1	VJS1445	CONNECTOR	1	K1MN26A00001 MAIN
CN2	K1MN19B00035	CONNECTOR	1	CPL
CN2	SJPG1JS140A	CONNECTOR	1	MAIN
CN2	SJPG2JS140A	CONNECTOR	1	CPR
CN3	SJPG1JS080A	CONNECTOR	1	MAIN
CN3	SJPG2JS060A	CONNECTOR	1	CPR
CN4	SJPG7JS030A	CONNECTOR	1	MAIN
CN6	SJPG1320A	CONNECTOR	1	MAIN
CN300	SJPG2JS120A	CONNECTOR	1	JACK1
CN301	SJPG2JS080A	CONNECTOR(8P)	1	JACK2
CN400	SJPG2JS060A	CONNECTOR	1	JACK3
CN400	SJPG7JS020A	CONNECTOR(2P)	1	ACP
CN401	SJPG7JS040A	CONNECTOR(4P)	1	ACP
CN701	K1MN16B00080	CONNECTOR(16P)	1	RAD3301A-C
CN702	RJS1A6719-1Q	CONNECTOR	1	RAD3301A-C
D1	MA111-TX	DIODE	1	MA2J11100L MAIN
D1	MA111-TX	DIODE	1	MA2J11100L CPR
D1	SEL4117RM	DIODE	1	CPL
D2	MA111-TX	DIODE	1	MA2J11100L MAIN
D2	MA111-TX	DIODE	1	MA2J11100L CPR
D2	SEL4117RM	DIODE	1	CPL
D3	MA111-TX	DIODE	1	MA2J11100L MAIN
D3	MA111-TX	DIODE	1	MA2J11100L CPR
D3	SEL4117RM	DIODE	1	CPL
D4	MA111-TX	DIODE	1	MA2J11100L MAIN
D4	MA8051M	DIODE	1	MAZ80510M CPR
D4	SEL4117RM	DIODE	1	CPL
D5	MA111-TX	DIODE	1	MA2J11100L MAIN
D5	SEL4117RM	DIODE	1	CPL

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D6	MA2062LF	DIODE	1	MAZ2062000LF MAIN
D6	SEL4117RM	DIODE	1	CPL
D7	B0JAME000064	DIODE	1	MAIN
D7	SEL4117RM	DIODE	1	CPL
D8	MA111-TX	DIODE	1	MA2J11100L MAIN
D8	SEL4117RM	DIODE	1	CPL
D9	MA111-TX	DIODE	1	MA2J11100L MAIN
D9	SEL4117RM	DIODE	1	CPL
D10	MA8075M	DIODE	1	MAZ80750M MAIN
D10	SEL4117RM	DIODE	1	CPL
D11	MA8036-LTX	DIODE	1	MAZ80360LL MAIN
D11	SEL4117RM	DIODE	1	CPL
D12	B0EAMM000030	DIODE	1	▲ MAIN
D12	SEL4117GMTP3	DIODE	1	CPL
D13	MA111-TX	DIODE	1	MA2J11100L MAIN
D13	SEL4117RM	DIODE	1	CPL
D14	B0EAMM000030	DIODE	1	▲ MAIN
D16	SEL4117RM	DIODE	1	CPL
D17	MA111-TX	DIODE	1	MA2J11100L MAIN
D17	SEL4117RM	DIODE	1	CPL
D18	B0EAMM000030	DIODE	1	▲ MAIN
D18	SEL4117RM	DIODE	1	CPL
D19	B0EAMM000030	DIODE	1	▲ MAIN
D19	SEL4117RM	DIODE	1	CPL
D19	SVDS3V40	DIODE	1	B0EAKM000066 MAIN
D20 21	SEL4117RM	DIODE	2	CPL
D22	ERA1502V5	DIODE	1	B0EAKM000061 MAIN
D22	SEL4117RM	DIODE	1	CPL
D23	ERA1502V5	DIODE	1	B0EAKM000061 MAIN
D23	SEL4117RM	DIODE	1	CPL
D25 26	B3AAA0000560	DIODE	2	CPL
D28	MA111-TX	DIODE	1	MA2J11100L CPL
D29	B0JAME000064	DIODE	1	MAIN
D30	MA111-TX	DIODE	1	MA2J11100L MAIN
D31	B0JAME000064	DIODE	1	MAIN
D33	MA111-TX	DIODE	1	MA2J11100L MAIN
D36	MA111-TX	DIODE	1	MA2J11100L MAIN
D38-43	MA111-TX	DIODE	6	MA2J11100L MAIN
D301-03	MA111-TX	DIODE	3	MA2J11100L JACK2
F1	XBA1C25NB100	FUSE 25A	1	▲ ACP P PC PL
F1	XBA2C12TB0L	FUSE T1.25AL	1	▲ ACP GU GM GT GH
F2	XBA2C06TB0L	FUSE T630MAL	1	▲ K5Y630B00001 ACP GU GM GT GH
F3	XBA2C06TB0L	FUSE T630MAL	1	▲ K5Y630B00001 ACP EX EB EQ EG EF GN
F3	XBA2C06TB0L	FUSE T630MAL	1	▲ K5Y630B00001 ACP GU GM GT GH
IC1	C0JAAN000070	IC	1	CPL
IC1	C2CBYF000025	IC	1	MAIN
IC1	M5218AFPE3	IC	1	C0ABBB000163 CPR
IC2	C3BBFC000244	IC	1	MAIN

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC2	M5218AFPE3	IC	1	C0ABBB000163 CPR
IC2	MN101C38CDB	IC	1	CPL
IC3	M5218AFPE3	IC	1	C0ABBB000163 CPR
IC3	TC7W14FTE12L	IC	1	C0JBAZ000524 MAIN
IC4	C3EBDC000045	IC	1	MAIN
IC4	M5218AFPE3	IC	1	C0ABBB000163 CPR
IC5	C1BB00000636	IC	1	MAIN
IC5	M5218AFPE3	IC	1	C0ABBB000163 CPR
IC6	KIA7815PI	IC	1	△ C0CAALG00016 MAIN
IC6	M5218AFPE3	IC	1	C0ABBB000163 CPR
IC7	C1BB00000576	IC	1	CPR
IC7	C3FBLD000072	IC	1	MAIN
IC8	C0FBBH000043	IC	1	MAIN
IC13	M5218AFPE3	IC	1	C0ABBB000163 MAIN
IC14	C3FBKD000167	IC	1	MAIN
IC17	M5218AFPE3	IC	1	C0ABBB000163 MAIN
IC18	KIA7915PI	IC	1	△ C0CABL00006 MAIN
IC300 01	M5218AFPE3	IC	2	C0ABBB000163 JACK1
IC301	SVIGPC900	IC	1	B3PAE0000002 JACK2
IC701	AN8885SBE1	IC	1	RAD3301A-C
IC702	MN662790RSC	IC	1	RAD3301A-C
IC703	AN8739SBTE2	IC	1	AN8739SBTE2 RAD3301A-C
IP1	ICP-N10T104	IC PROTECTOR	1	△ B1AZ0000035 MAIN
IP2 P3	ICP-N75T104	IC PROTECTOR	2	△ D4FA2R700001 MAIN
IP4	ICP-N38T104	IC PROTECTOR	1	△ B1AZ0000031 MAIN
IP5 P6	ICP-N10T104	IC PROTECTOR	2	△ B1AZ0000035 MAIN
IP7	ICP-N38T104	IC PROTECTOR	1	△ B1AZ0000031 MAIN
IP10	D4FA2R000001	IC PROTECTOR	1	△ MAIN
IP11 12	ICP-N38T104	IC PROTECTOR	2	△ B1AZ0000031 MAIN
J701 02	ERJ3GEY0R00V	CHIP JUMPER	2	RAD3301A-C
J704	ERJ3GEY0R00V	CHIP JUMPER	1	RAD3301A-C
J710	ERJ3GEY0R00V	CHIP JUMPER	1	RAD3301A-C
J712-14	ERJ3GEY0R00V	CHIP JUMPER	3	RAD3301A-C
J721-42	ERJ3GEY0R00V	CHIP JUMPER	22	RAD3301A-C
JK300 01	QJJG003AA	LINE OUT AUX IN	2	K2HB102J0037 JACK1
JK301	QJJG005AA	JACK	1	JACK2
JK302	QJJG003AA	LINE OUT AUX IN	1	K2HB102J0037 JACK1
JK302	QJJG019AA	JACK FOOT SW	1	JACK2
JK303	QJJG003AA	LINE OUT AUX IN	1	K2HB102J0037 JACK1
JK303	QJJG019AA	JACK FOOT SW	1	JACK2
JK304	K2HA204B0087	JACK LINE OUT/AUX IN JACK	1	JACK1
JK305 06	QJJG019AA	JACK FOOT SW	2	JACK1
JK400	K2HB103J0046	JACK	1	JACK3
JK400	VJS2986-1	JACK	1	K2AB2K000003 ACP
JK401	K2HB102B0011	JACK	1	JACK3
L1	QLQGT1B101KA	100UH	1	G0C101K00030 MAIN
L2 L3	QLBG005A	COIL	2	G0ZZ00001936 MAIN
L4 L5	QLQGT1D600LA	60UH x 3	2	MAIN

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L6	QLBG005A	COIL	1	G0ZZ00001936 MAIN
L7	QLQGT1D600LA	60UH x 3	1	MAIN
L8	QLBG005A	COIL	1	G0ZZ00001936 MAIN
L300 01	QLQGT3T131LA	130mH x 3	2	JACK1
L302	QLQGT3T131LA	130mH x 3	1	JACK1
L303	QLQGT3T131LA	130mH x 3	1	JACK1
L304	QLQGT3T131LA	130mH x 3	1	JACK2
L400	QLQGT2T100LA	10UH x 2	1	ACP
L401	QLQGT3T131LA	130mH x 3	1	JACK3
LCD2	L5AABGC00002	LCD	1	CPL
LED1	T512SRDBS119	7SEGMENTS DISPLAY	1	CPL
P1	QPGG0503AA	PACKING CASE	1	
P2	QPNNG0820AA	CORNER GUARD	1	
P3	QPHG112AA	PROTECT BAG	1	
P4	SPHG810A	POWER CORD BAG	1	
PCB1	SXPG237211	MAIN P.C.B.	1	MAIN<RTL>
PCB2	SXPG237311A	CPL P.C.B.	1	CPL<RTL>
PCB3	SXPG237411A	CPR P.C.B.	1	CPR<RTL>
PCB4	SXPG237311B	JACK P.C.B.	1	JACK1<RTL>
PCB5	SXPG237411B	JACK2 P.C.B.	1	JACK2<RTL>
PCB6	SXPG237411C	JACK3 P.C.B.	1	JACK3<RTL>
PCB7	SXPG237321C	ACP P.C.B.	1	▲ ACP P PC PL<RTL>
PCB7	SXPG237331C	ACP P.C.B.	1	▲ EX EB EQ EG EF GN<RTL>
PCB7	SXPG237341C	ACP P.C.B.	1	▲ GU GM GT GH<RTL>
PCB8	SXPG237311D	SW P.C.B.	1	SW<RTL>
PCB9	SXPG237311E	SEAL PLATE(A)	1	MEKAKUSHI A<RTL>
PCB10	SXPG237311F	SEAL PLATE(B)	1	MEKAKUSHI B<RTL>
Q1	2SB709AR	TRANSISTOR	1	2SB0709AR CPL
Q1	2SD601AQ	TRANSISTOR	1	2SD0601AQ CPR
Q2	2SB621A-R	TRANSISTOR	1	2SB0621AH MAIN
Q2	2SB709AR	TRANSISTOR	1	2SB0709AR CPL
Q2	B1AAKD000008	TRANSISTOR	1	CPR
Q3	2SB709AR	TRANSISTOR	1	2SB0709AR CPL
Q3	2SB941PSWMG	TRANSISTOR	1	MAIN
Q3	B1ACKD000002	TRANSISTOR	1	CPR
Q4	2SB709AR	TRANSISTOR	1	2SB0709AR CPL
Q4	B1AACF000068	TRANSISTOR	1	MAIN
Q4	B1AAKD000008	TRANSISTOR	1	CPR
Q5	2SB709AR	TRANSISTOR	1	2SB0709AR MAIN
Q5	2SB709AR	TRANSISTOR	1	2SB0709AR CPL
Q5	B1ACKD000002	TRANSISTOR	1	CPR
Q6	2SB709AR	TRANSISTOR	1	2SB0709AR CPL
Q6	2SJ106YTE85R	TRANSISTOR	1	MAIN
Q7	2SB709AR	TRANSISTOR	1	2SB0709AR CPL
Q7	2SD601AQ	TRANSISTOR	1	2SD0601AQ MAIN
Q8	2SB709AR	TRANSISTOR	1	2SB0709AR CPL
Q8	2SJ106YTE85R	TRANSISTOR	1	MAIN
Q9	2SA830STPB	TRANSISTOR	1	CPL

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q9	2SJ106YTE85R	TRANSISTOR	1	MAIN
Q10	2SA830STPB	TRANSISTOR	1	CPL
Q10	2SJ106YTE85R	TRANSISTOR	1	MAIN
Q11	2SA830STPB	TRANSISTOR	1	CPL
Q11	2SJ106YTE85R	TRANSISTOR	1	MAIN
Q12	2SA830STPB	TRANSISTOR	1	CPL
Q12	2SJ106YTE85R	TRANSISTOR	1	MAIN
Q13 14	2SA830STPB	TRANSISTOR	2	CPL
Q16	UN2213	TRANSISTOR	1	UNR2213 CPL
Q17	B1ACCF000041	TRANSISTOR	1	MAIN
Q20	B1ACCF000041	TRANSISTOR	1	MAIN
Q23	2SD601AQ	TRANSISTOR	1	2SD0601AQ MAIN
Q28	2SB709AR	TRANSISTOR	1	2SB0709AR MAIN
Q29	2SD601AQ	TRANSISTOR	1	2SD0601AQ MAIN
Q30	2SB709AR	TRANSISTOR	1	2SB0709AR MAIN
Q31	2SD601AQ	TRANSISTOR	1	2SD0601AQ MAIN
Q32	2SB709AR	TRANSISTOR	1	2SB0709AR MAIN
Q33	2SD601AQ	TRANSISTOR	1	2SD0601AQ MAIN
Q34-40	2SB709AR	TRANSISTOR	7	2SB0709AR MAIN
Q41	2SD601AQ	TRANSISTOR	1	2SD0601AQ MAIN
Q42	2SB709AR	TRANSISTOR	1	2SB0709AR MAIN
Q43	2SD601AQ	TRANSISTOR	1	2SD0601AQ MAIN
Q44	2SB709AR	TRANSISTOR	1	2SB0709AR MAIN
Q45 46	2SD601AQ	TRANSISTOR	2	2SD0601AQ MAIN
Q47	2SB709AR	TRANSISTOR	1	2SB0709AR MAIN
Q48	2SD601AQ	TRANSISTOR	1	2SD0601AQ MAIN
Q49 50	2SB709AR	TRANSISTOR	2	2SB0709AR MAIN
Q51 52	2SD601AQ	TRANSISTOR	2	2SD0601AQ MAIN
Q53	2SB709AR	TRANSISTOR	1	2SB0709AR MAIN
Q54	2SD601AQ	TRANSISTOR	1	2SD0601AQ MAIN
Q55	2SB709AR	TRANSISTOR	1	2SB0709AR MAIN
Q56	2SD601AQ	TRANSISTOR	1	2SD0601AQ MAIN
Q57	2SB709AR	TRANSISTOR	1	2SB0709AR MAIN
Q58	2SD601AQ	TRANSISTOR	1	2SD0601AQ MAIN
Q59	2SB709AR	TRANSISTOR	1	2SB0709AR MAIN
Q60	2SD601AQ	TRANSISTOR	1	2SD0601AQ MAIN
Q61	2SB709AR	TRANSISTOR	1	2SB0709AR MAIN
Q62	2SD601AQ	TRANSISTOR	1	2SD0601AQ MAIN
Q63	2SB709AR	TRANSISTOR	1	2SB0709AR MAIN
Q64	2SJ425	TRANSISTOR	1	B1DCFG000001 MAIN
Q65	2SK1188	TRANSISTOR	1	B1DAKG000001 MAIN
Q68	SLA5007	TRANSISTOR	1	B1MADFC000001 MAIN
Q301	2SB709AR	TRANSISTOR	1	2SB0709AR JACK2
Q701	2SB709S	TRANSISTOR	1	2SB07090S RAD3301A-C
R1	ERJ3GEYJ153V	1/16W 15K	1	MAIN
R1	ERJ3GEYJ680V	1/16W 68	1	D0GB680JA002 CPL
R1	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002 CPR
R2	ERJ3GEYJ153V	1/16W 15K	1	MAIN
R2	ERJ3GEYJ472V	1/16W 4.7K	1	CPR
R2	ERJ3GEYJ680V	1/16W 68	1	D0GB680JA002 CPL
R3	ERJ3GEYJ153V	1/16W 15K	1	MAIN
R3	ERJ3GEYJ222V	1/16W 2.2K	1	CPR
R3	ERJ3GEYJ680V	1/16W 68	1	D0GB680JA002 CPL

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R4	ERJ3GEYJ154V	1/16W 150K	1	CPR
R4	ERJ3GEYJ221V	1/16W 220	1	MAIN
R4	ERJ3GEYJ680V	1/16W 68	1	D0GB680JA002 CPL
R5	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 CPR
R5	ERJ3GEYJ221V	1/16W 220	1	MAIN
R5	ERJ3GEYJ680V	1/16W 68	1	D0GB680JA002 CPL
R6	ERJ3GEYJ104V	1/16W 10K	1	D0GB104JA002 CPR
R6	ERJ3GEYJ221V	1/16W 220	1	MAIN
R6	ERJ3GEYJ680V	1/16W 68	1	D0GB680JA002 CPL
R7	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002 MAIN
R7	ERJ3GEYJ680V	1/16W 68	1	D0GB680JA002 CPL
R8	ERJ3GEYJ101V	1/16W 100	1	MAIN
R8	ERJ3GEYJ102V	1/16W 1K	1	CPR
R8	ERJ3GEYJ680V	1/16W 68	1	D0GB680JA002 CPL
R9	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 CPL
R9	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 CPR
R9	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002 MAIN
R10	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 CPL
R10	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002 MAIN
R10	ERJ3GEYJ273V	1/16W 27K	1	D0GB273JA002 CPR
R11	ERJ3GEYJ101V	1/16W 100	1	MAIN
R11	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 CPL
R11	ERJ3GEYJ273V	1/16W 27K	1	D0GB273JA002 CPR
R12	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 CPL
R12	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002 MAIN
R12	ERJ3GEYJ563V	1/16W 56K	1	CPR
R13	ERJ3GEYJ0R00V	1/16W 0	1	MAIN
R13	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 CPL
R13	ERJ3GEYJ273V	1/16W 27K	1	D0GB273JA002 CPR
R14	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 CPL
R14	ERJ3GEYJ273V	1/16W 27K	1	D0GB273JA002 CPR
R14	ERJ3GEYJ472V	1/16W 4.7K	1	MAIN
R15	ERJ3GEYJ152V	1/16W 1.5K	1	CPL
R15	ERJ3GEYJ273V	1/16W 27K	1	D0GB273JA002 CPR
R15	ERJ3GEYJ472V	1/16W 4.7K	1	MAIN
R16	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002 CPR
R16	ERJ3GEYJ222V	1/16W 2.2K	1	CPL
R16	ERJ3GEYJ472V	1/16W 4.7K	1	MAIN
R17	ERJ3GEYJ272V	1/16W 2.7K	1	CPL
R17	ERJ3GEYJ472V	1/16W 4.7K	1	MAIN
R17	ERJ3GEYJ473V	1/16W 56K	1	D0GB473JA002 CPR
R18	ERJ3GEYJ392V	1/16W 3.9K	1	CPL
R18	ERJ3GEYJ472V	1/16W 4.7K	1	MAIN
R18	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002 CPR
R19	ERJ3GEYJ472V	1/16W 4.7K	1	MAIN
R19	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002 CPL
R19	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002 CPR
R20	ERJ3GEYJ472V	1/16W 4.7K	1	MAIN
R20	ERJ3GEYJ474V	1/16W 470K	1	CPR
R20	ERJ3GEYJ822V	1/16W 8.2K	1	D0GB822JA002 CPL
R21	ERJ3GEYJ223V	1/16W 22K	1	CPR
R21	ERJ3GEYJ153V	1/16W 15K	1	CPL
R21	ERJ3GEYJ472V	1/16W 4.7K	1	MAIN
R22	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 MAIN

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R22	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002 CPL
R23	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 MAIN
R23	ERJ3GEYJ153V	1/16W 15K	1	CPR
R23	ERJ3GEYJ823V	1/16W 82K	1	D0GB823JA002 CPL
R24	ERJ3GEYJ152V	1/16W 1.5K	1	CPL
R24	ERJ3GEYJ222V	1/16W 2.2K	1	CPR
R24	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002 MAIN
R25	ERJ3GEY0R00V	1/16W 0	1	MAIN
R25	ERJ3GEYJ222V	1/16W 2.2K	1	CPL
R25	ERJ3GEYJ472V	1/16W 4.7K	1	CPR
R26	ERJ3GEYJ101V	1/16W 100	1	MAIN
R26	ERJ3GEYJ272V	1/16W 2.7K	1	CPL
R26	ERJ3GEYJ273V	1/16W 27K	1	D0GB273JA002 CPR
R27	ERJ3GEYJ105V	1/16W 1M	1	MAIN
R27	ERJ3GEYJ392V	1/16W 3.9K	1	CPL
R28	ERJ3GEYJ124V	1/16W 120K	1	D0GB124JA002 CPR
R28	ERJ3GEYJ221V	1/16W 220	1	MAIN
R28	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002 CPL
R29	ERJ3GEYJ822V	1/16W 8.2K	1	D0GB822JA002 CPL
R30	ERJ3GEYJ153V	1/16W 15K	1	CPL
R30	ERJ3GEYJ221V	1/16W 220	1	MAIN
R30	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002 CPR
R31	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002 CPL
R31	ERJ3GEYJ392V	1/16W 3.9K	1	CPR
R31	ERJ3GEYJ470V	1/16W 47	1	D0GB470JA002 MAIN
R32	ERJ3GEYJ224V	1/16W 220K	1	D0GB224JA002 MAIN
R32	ERJ3GEYJ392V	1/16W 3.9K	1	CPR
R32	ERJ3GEYJ823V	1/16W 82K	1	D0GB823JA002 CPL
R33	ERJ3GEYJ153V	1/16W 15K	1	CPR
R33	ERJ3GEYJ470V	1/16W 47	1	D0GB470JA002 MAIN
R33	ERJ3GEYJ474V	1/16W 470K	1	CPL
R34	ERJ3GEY0R00V	1/16W 0	1	MAIN
R34	ERJ3GEYJ153V	1/16W 15K	1	CPR
R34	ERJ3GEYJ472V	1/16W 4.7K	1	CPL
R35	ERJ3GEYJ221V	1/16W 220	1	MAIN
R35	ERJ3GEYJ472V	1/16W 4.7K	1	CPL
R36	ERJ3GEYJ221V	1/16W 220	1	MAIN
R36	ERJ3GEYJ472V	1/16W 4.7K	1	CPL
R37	ERJ3GEY0R00V	1/16W 0	1	MAIN
R37	ERJ3GEYJ105V	1/16W 1M	1	CPL
R37	ERJ3GEYJ393V	1/16W 39K	1	D0GB393JA002 CPR
R38	ERJ3GEY0R00V	1/16W 0	1	MAIN
R38	ERJ3GEYJ102V	1/16W 1K	1	CPL
R38	ERJ3GEYJ392V	1/16W 3.9K	1	CPR
R39	ERJ3GEY0R00V	1/16W 0	1	MAIN
R39	ERJ3GEYJ102V	1/16W 1K	1	CPL
R39	ERJ3GEYJ392V	1/16W 3.9K	1	CPR
R40	ERJ3GEY0R00V	1/16W 0	1	MAIN
R40	ERJ3GEYJ102V	1/16W 1K	1	CPL
R40	ERJ3GEYJ123V	1/16W 12K	1	CPR
R41	ERJ3GEYJ822V	1/16W 8.2K	1	CPR
R41	ERJ3GEYJ102V	1/16W 1K	1	CPL
R41	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002 MAIN
R42	ERJ3GEYJ102V	1/16W 1K	1	CPL

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R42	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002 CPR
R43	ERJ3GEYJ102V	1/16W 1K	1	CPL
R43	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002 CPR
R44	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002 CPL
R44	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002 CPR
R44	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002 MAIN
R45	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002 CPR
R45	ERJ3GEYJ823V	1/16W 82K	1	D0GB823JA002 CPL
R46	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002 MAIN
R46	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002 CPR
R46	ERJ3GEYJ823V	1/16W 82K	1	D0GB823JA002 CPL
R47	ERJ3GEY0R00V	1/16W 0	1	MAIN
R47	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002 CPR
R47	ERJ3GEYJ273V	1/16W 27K	1	D0GB273JA002 CPL
R48	ERJ3GEYJ102V	1/16W 1K	1	CPL
R48	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002 CPR
R48	ERJ3GEYJ153V	1/16W 15K	1	MAIN
R49	ERJ3GEY0R00V	1/16W 0	1	MAIN
R49	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002 CPR
R50	ERJ3GEYJ122V	1/16W 1.2K	1	CPR
R50	ERJ3GEYJ472V	1/16W 4.7K	1	CPL
R51	ERJ3GEYJ273V	1/16W 27K	1	D0GB273JA002 CPR
R52	ERJ3GEYJ101V	1/16W 100	1	CPL
R52	ERJ3GEYJ224V	1/16W 220K	1	D0GB224JA002 MAIN
R52	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002 CPR
R53	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002 CPR
R53	ERJ3GEYJ472V	1/16W 4.7K	1	CPL
R53	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002 MAIN
R54	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002 CPR
R54	ERJ3GEYJ153V	1/16W 15K	1	MAIN
R54	ERJ3GEYJ472V	1/16W 4.7K	1	CPL
R55	ERJ3GEYJ153V	1/16W 15K	1	MAIN
R55	ERJ3GEYJ153V	1/16W 15K	1	CPR
R55	ERJ3GEYJ472V	1/16W 4.7K	1	CPL
R56	ERJ3GEY0R00V	1/16W 0	1	MAIN
R56	ERJ3GEYJ123V	1/16W 12K	1	CPR
R57	ERJ3GEYJ153V	1/16W 15K	1	MAIN
R57	ERJ3GEYJ472V	1/16W 4.7K	1	CPR
R58	ERJ3GEYJ101V	1/16W 100	1	CPL
R58	ERJ3GEYJ822V	1/16W 8.2K	1	D0GB822JA002 CPR
R59	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002 CPL
R59	ERJ3GEYJ822V	1/16W 8.2K	1	D0GB822JA002 CPR
R60	ERJ3GEYJ102V	1/16W 1K	1	CPL
R60	ERJ3GEYJ153V	1/16W 15K	1	CPR
R61	ERJ3GEYJ102V	1/16W 1K	1	CPL
R61	ERJ3GEYJ123V	1/16W 12K	1	CPR
R62	ERJ3GEYJ102V	1/16W 1K	1	CPL
R62	ERJ3GEYJ682V	1/16W 6.8K	1	D0GB682JA002 CPR
R63	ERJ3GEYJ102V	1/16W 1K	1	CPL
R63	ERJ3GEYJ222V	1/16W 2.2K	1	CPR
R64	ERJ3GEYJ151V	1/16W 150	1	MAIN
R64	ERJ3GEYJ154V	1/16W 150K	1	CPR
R65	ERJ3GEYJ153V	1/16W 15K	1	CPL
R65	ERJ3GEYJ472V	1/16W 4.7K	1	CPR

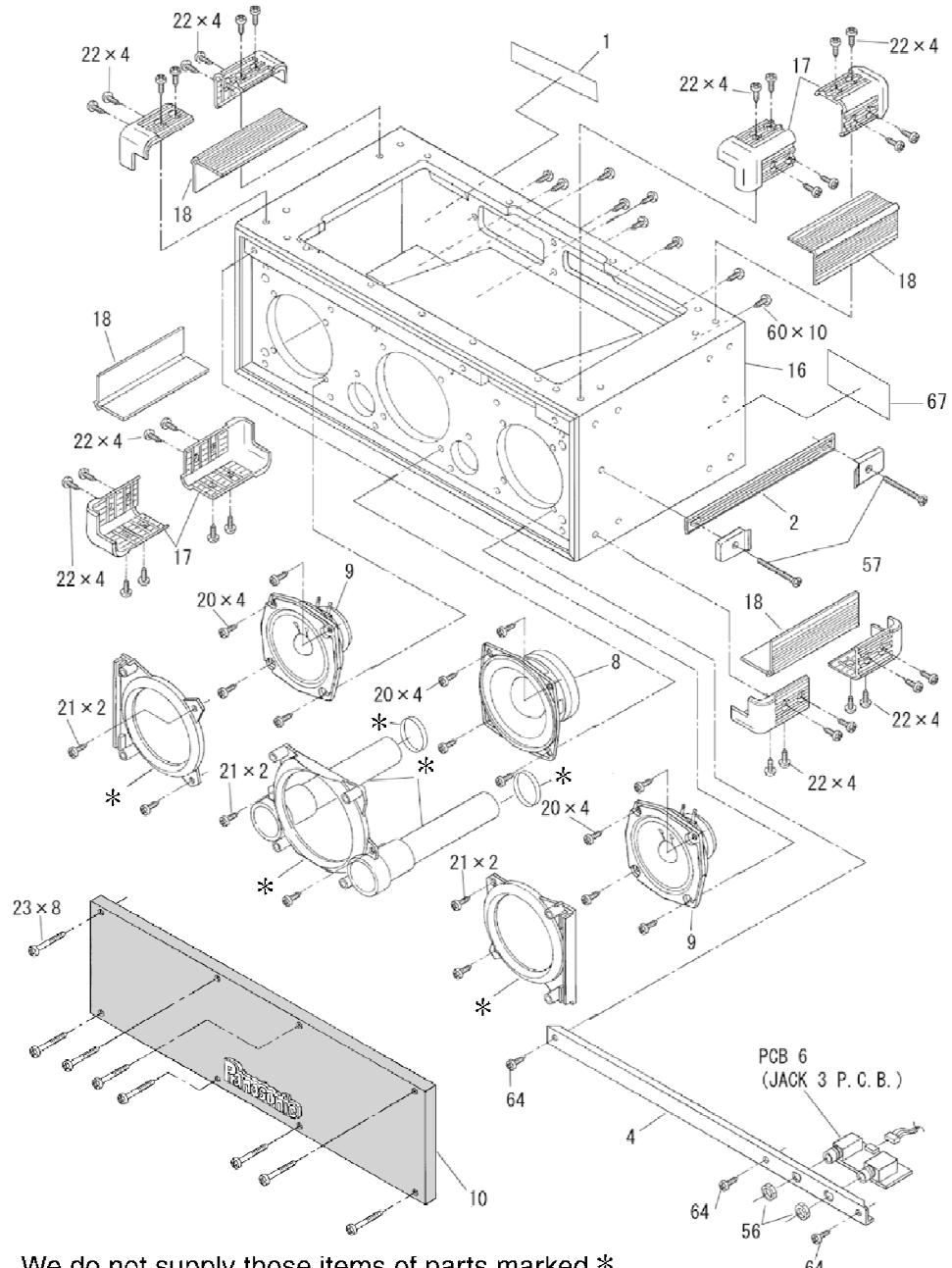
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R66	ERJ3GEYJ154V	1/16W 150K	1	CPR
R66	ERJ3GEYJ272V	1/16W 2.7K	1	CPL
R67	ERJ3GEYJ124V	1/16W 120K	1	D0GB124JA002 CPR
R67	ERJ3GEYJ222V	1/16W 2.2K	1	CPL
R69	ERJ3GEYJ124V	1/16W 120K	1	D0GB124JA002 CPR
R69	ERJ3GEYJ153V	1/16W 15K	1	CPL
R70	ERJ3GEYJ124V	1/16W 120K	1	D0GB124JA002 CPR
R71	ERJ3GEYJ102V	1/16W 1K	1	CPR
R71	ERJ3GEYJ152V	1/16W 1.5K	1	CPL
R72	ERJ3GEYJ102V	1/16W 1K	1	CPR
R72	ERJ3GEYJ153V	1/16W 15K	1	CPL
R73	ERJ3GEYJ220V	1/16W 22	1	CPR
R73	ERJ3GEYJ272V	1/16W 2.7K	1	CPL
R74	ERJ3GEYJ220V	1/16W 22	1	CPR
R74	ERJ3GEYJ222V	1/16W 2.2K	1	CPL
R75	ERJ3GEYJ152V	1/16W 1.5K	1	CPL
R75	ERJ3GEYJ273V	1/16W 27K	1	D0GB273JA002 CPR
R76	ERJ3GEYJ101V	1/16W 100	1	MAIN
R76	ERJ3GEYJ222V	1/16W 2.2K	1	CPR
R76	ERJ3GEYJ392V	1/16W 3.9K	1	CPL
R77	ERJ3GEYJ124V	1/16W 120K	1	D0GB124JA002 CPL
R77	ERJ3GEYJ821V	1/16W 820	1	CPR
R78	ERJ3GEYJ154V	1/16W 150K	1	CPL
R78	ERJ3GEYJ821V	1/16W 820	1	CPR
R79	ERJ3GEYJ152V	1/16W 1.5K	1	CPL
R79 80	ERJ3GEYJ273V	1/16W 27K	2	D0GB273JA002 CPR
R81	ERJ3GEYJ152V	1/16W 1.5K	1	CPR
R81	ERJ3GEYJ472V	1/16W 4.7K	1	CPL
R82	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 CPL
R82	ERJ3GEYJ152V	1/16W 1.5K	1	CPR
R83 84	ERJ3GEYJ682V	1/16W 6.8K	2	D0GB682JA002 CPR
R85	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 CPR
R86	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002 CPR
R87	ERJ3GEYJ682V	1/16W 6.8K	1	D0GB682JA002 CPR
R89	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002 CPR
R91 92	ERJ3GEYJ472V	1/16W 4.7K	2	CPR
R101	ERJ3GEYJ102V	1/16W 1K	1	MAIN
R102	ERD2FCVJ6R8	6.8	1	⚠ MAIN
R103	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002 MAIN
R104	ERJ3GEYJ221V	1/16W 220	1	MAIN
R105	ERJ3GEYJ102V	1/16W 1K	1	MAIN
R106	ERJ3GEY0R00V	1/16W 0	1	MAIN
R107	ERJ3GEYJ331V	1/16W 330	1	MAIN
R108	ERJ3GEYJ221V	1/16W 220	1	MAIN
R110	ERJ3GEYJ102V	1/16W 1K	1	MAIN
R111	ERJ3GEYJ221V	1/16W 220	1	MAIN
R113	ERD2FCVJ6R8	6.8	1	⚠ MAIN
R114	ERJ3GEYJ151V	1/16W 150	1	MAIN
R119	ERJ3GEYJ331V	1/16W 330	1	MAIN
R120	ERJ3GEYJ101V	1/16W 100	1	MAIN
R124	ERJ3GEYJ471V	1/16W 470	1	MAIN
R125	ERX1SJR47	0.47	1	MAIN
R126 27	ERJ3GEYJ222V	1/16W 2.2K	2	MAIN
R156	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002 MAIN

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R160 61	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002 MAIN
R162	ERJ3GEYJ101V	1/16W 100	1	MAIN
R166	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002 MAIN
R167	ERJ3GEYJ823V	1/16W 82K	1	D0GB823JA002 MAIN
R168	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002 MAIN
R169	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002 MAIN
R170	ERJ3GEYJ823V	1/16W 82K	1	D0GB823JA002 MAIN
R171	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002 MAIN
R172	ERJ3GEYJ151V	1/16W 150	1	MAIN
R173 74	ERJ3GEYJ224V	1/16W 220K	2	D0GB224JA002 MAIN
R175 76	ERJ3GEYJ222V	1/16W 2.2K	2	MAIN
R180 81	ERJ3GEYJ104V	1/16W 100K	2	D0GB104JA002 MAIN
R184 85	ERJ3GEYJ104V	1/16W 100K	2	D0GB104JA002 MAIN
R187	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002 MAIN
R188	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 MAIN
R191 92	ERJ3GEYJ222V	1/16W 1	2	MAIN
R195 96	ERJ3GEYJ104V	1/16W 100K	2	D0GB104JA002 MAIN
R197 98	ERJ3GEYJ123V	1/16W 12K	2	MAIN
R199	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 MAIN
R200	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002 MAIN
R201	ERJ3GEY0R00V	1/16W 0	1	MAIN
R202	ERJ3GEYJ471V	1/16W 470	1	MAIN
R203 04	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002 MAIN
R205	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 MAIN
R208-10	ERJ3GEYJ102V	1/16W 1K	3	MAIN
R211	ERJ3GEYJ183V	1/16W 18K	1	D0GB183JA002 MAIN
R212	ERJ3GEYJ122V	1/16W 1.2K	1	MAIN
R213	ERJ3GEYJ183V	1/16W 18K	1	D0GB183JA002 MAIN
R218	ERJ3GEYJ272V	1/16W 2.7K	1	MAIN
R219 20	ERJ3GEYJ684V	1/16W 680K	2	MAIN
R221	ERJ3GEYJ392V	1/16W 3.9K	1	MAIN
R224	ERJ3GEYJ272V	1/16W 2.7K	1	MAIN
R226	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002 MAIN
R227	ERJ3GEYJ105V	1/16W 1M	1	MAIN
R228	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002 MAIN
R229	ERJ3GEYJ105V	1/16W 1M	1	MAIN
R230	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002 MAIN
R231	ERJ3GEYJ105V	1/16W 1M	1	MAIN
R233-35	ERJ3GEYJ222V	1/16W 1	3	MAIN
R236-38	ERD2FCVG471T	47 FUSE TYPE	3	▲ MAIN
R239-41	ERJ3GEYJ332V	1/16W 3.3K	3	D0GB332JA002 MAIN
R242	ERJ3GEYJ153V	1/16W 15K	1	MAIN
R243	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002 MAIN
R244	ERJ3GEYJ153V	1/16W 15K	1	MAIN
R245	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002 MAIN
R246	ERJ3GEYJ153V	1/16W 15K	1	MAIN
R247	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002 MAIN
R248-53	ERD2FCVG471T	47 FUSE TYPE	6	▲ MAIN
R254-65	ERJ3GEYJ472V	1/16W 4.7K	12	MAIN
R266 67	ERD2FCVG101	100	2	▲ MAIN
R268-73	ERJ3GEYJ105V	1/16W 1M	6	MAIN
R281	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002 MAIN
R282	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002 MAIN

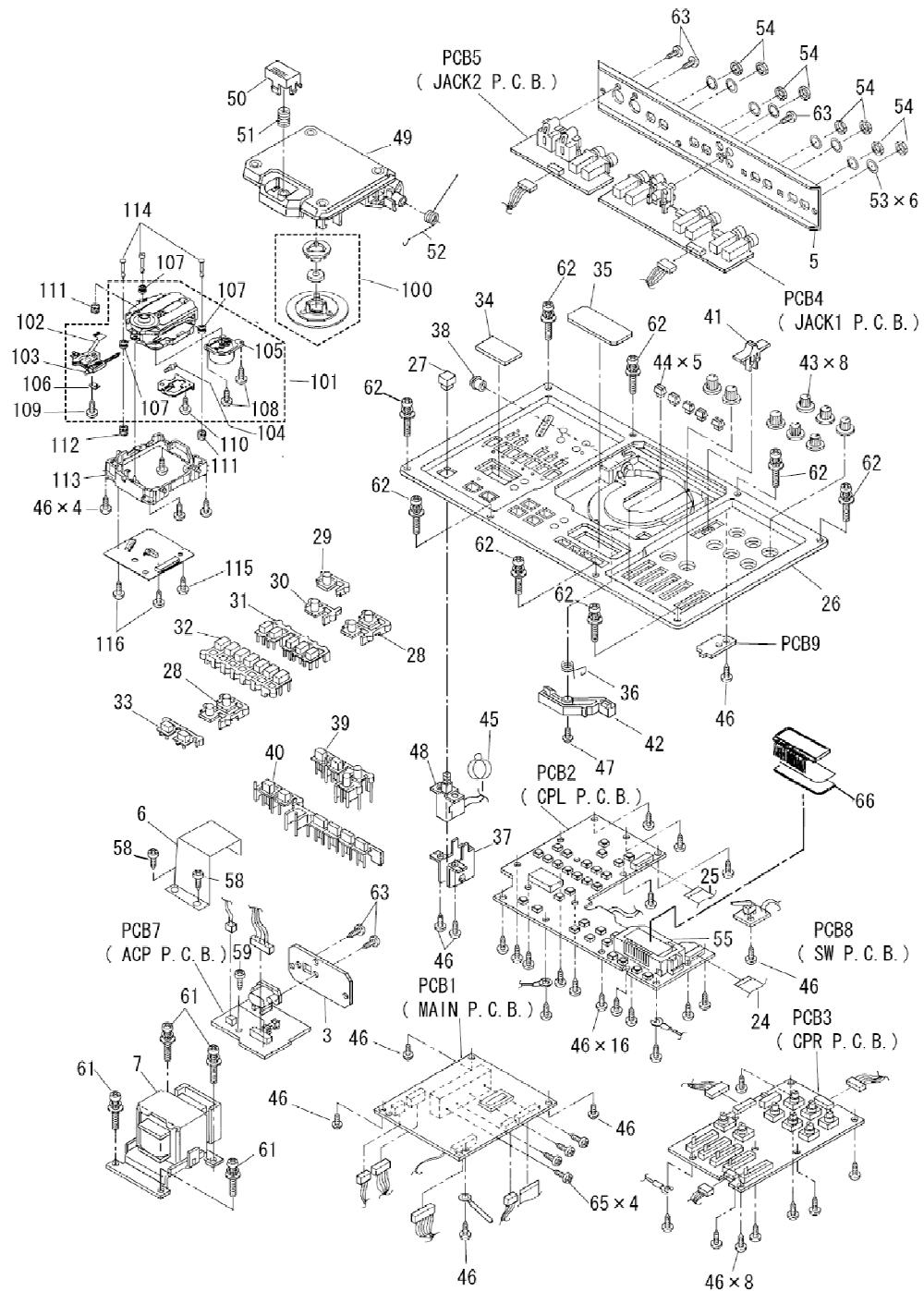
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R283	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002 MAIN
R284	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002 MAIN
R300	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002 JACK1
R301	ERJ3GEYJ221V	1/16W 220	1	JACK2
R301	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002 JACK1
R302	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002 JACK2
R302	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002 JACK1
R303	ERJ3GEYJ680V	1/16W 68	1	D0GB680JA002 JACK2
R303	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002 JACK1
R304	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002 JACK2
R304	ERJ3GEYJ682V	1/16W 6.8K	1	D0GB682JA002 JACK1
R305	ERJ3GEYJ102V	1/16W 1K	1	JACK2
R305	ERJ3GEYJ682V	1/16W 6.8K	1	D0GB682JA002 JACK1
R306-09	ERJ3GEYJ681V	1/16W 680	4	D0GB681JA002 JACK1
R310-14	ERJ3GEYJ124V	1/16W 120K	5	D0GB124JA002 JACK1
R315	ERJ3GEYJ122V	1/16W 1.2K	1	JACK1
R316	ERJ3GEYJ101V	1/16W 100	1	JACK1
R317	ERJ3GEYJ124V	1/16W 120K	1	D0GB124JA002 JACK1
R318	ERJ3GEYJ122V	1/16W 1.2K	1	JACK1
R319	ERJ3GEYJ101V	1/16W 100	1	JACK1
R320	ERD2FCVG101	100	1	⚠ MAIN
R320	ERJ3GEY0R00V	1/16W 0	1	JACK1
R321	ERJ3GEYJ122V	1/16W 1.2K	1	JACK1
R322	ERJ3GEYJ124V	1/16W 120K	1	D0GB124JA002 JACK1
R323	ERJ3GEYJ101V	1/16W 100	1	JACK1
R324	ERJ3GEY0R00V	1/16W 0	1	JACK1
R325	ERJ3GEYJ122V	1/16W 1.2K	1	JACK1
R326	ERJ3GEYJ124V	1/16W 120K	1	D0GB124JA002 JACK1
R327	ERJ3GEYJ101V	1/16W 100	1	JACK1
R400 01	ERG1SJ680	1W 68	2	JACK3
R701	ERJ3GEYJ4R7V	1/16W 4.7	1	RAD3301A-C
R702	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 RAD3301A-C
R704	ERJ3GEYJ102V	1/16W 1K	1	RAD3301A-C
R705	ERJ3GEYJ154V	1/16W 150K	1	RAD3301A-C
R706	ERJ3GEYJ102V	1/16W 1K	1	RAD3301A-C
R707	ERJ3GEYJ393V	1/16W 39K	1	D0GB393JA002 RAD3301A-C
R708	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002 RAD3301A-C
R709	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002 RAD3301A-C
R711	ERJ3GEYJ823V	1/16W 82K	1	D0GB823JA002 RAD3301A-C
R712	ERJ3GEYJ221V	1/16W 220	1	RAD3301A-C
R714	ERJ3GEY0R00V	1/16W 0	1	RAD3301A-C
R715	ERJ3GEYJ102V	1/16W 1K	1	RAD3301A-C
R717 18	ERJ3GEYJ102V	1/16W 1K	2	RAD3301A-C
R721	ERJ3GEYJ101V	1/16W 100	1	RAD3301A-C
R723	ERJ3GEYJ682V	1/16W 6.8K	1	D0GB682JA002 RAD3301A-C
R724	ERJ6GEYJ183V	1/10W 18K	1	RAD3301A-C
R725	ERJ3GEYJ391V	1/16W 390	1	RAD3301A-C
R727-29	ERJ3GEYJ392V	1/16W 3.9K	3	RAD3301A-C
R731	ERJ6GEYJ682V	1/10W 6.8K	1	RAD3301A-C
R735	ERJ6GEYJ101V	1/10W 100	1	RAD3301A-C
R736	ERJ3GEYJ101V	1/16W 100	1	RAD3301A-C
R741	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002 RAD3301A-C
R742	ERJ6GEYJ224V	1/10W 220K	1	RAD3301A-C
R744	ERJ3GEYJ124V	1/16W 120K	1	D0GB124JA002 RAD3301A-C

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R749	ERJ3GEYJ472V	1/16W 4.7K	1	RAD3301A-C
R750	ERJ6GEYJ4R7V	1/10W 4.7	1	RAD3301A-C
R753	ERJ3GEYJ100V	1/16W 10	1	RAD3301A-C
RJ1-J6	ERJ3GEY0R00V	CHIP JUMPER	6	CPL
RJ9-11	ERJ3GEY0R00V	CHIP JUMPER	3	CPL
RJ14-16	ERJ3GEY0R00V	CHIP JUMPER	3	CPL
RJP1-P5	ERJ3GEY0R00V	CHIP JUMPER	5	CPR
S400	QSRGT005AA	SW ROTARY	1	ACP GU GM GT GH
S701	RSH1A043-U	SW	1	K0J1BB000022 RAD3301A-C
SW1	EVQ21405R	SW	1	EVQ21405RJ CPL
SW1	K0D123B00036	SW	1	CPR
SW2-24	EVQ21405R	SW	23	EVQ21405RJ CPL
SW26-31	EVQ21405R	SW	6	EVQ21405RJ CPL
SW300 01	RSS2B014-A	SW	2	K0D122B00047 JACK1
SW500	RSH1A033-U	SW	1	K0F111B00058 SW
VR1	D2B6C14B0001	VR	1	CPR
VR2-R4	D2B6C14B0002	VR	3	CPR
VR8 R9	D2BEA54B0001	VR	2	CPR
VR10 11	D2BGC15C0001	VR	2	CPR
VR12	D2BEA54B0001	VR	1	CPR
VR14 15	D2BEA54B0002	VR	2	CPR
VR16	D2B6C14B0002	VR	1	CPR
VR18	D2BEA54B0002	VR	1	CPR
W1	QEXGSS06010A	CONNECTOR WITH WIRE	1	
W2	QEXGSS08020A	CONNECTOR WITH WIRE	1	
W3	QEXGSS12010A	CONNECTOR WITH WIRE	1	
W4	QEXGSS14030A	CONNECTOR WITH WIRE	1	
W5	QEXGVH06050C	CONNECTOR WITH WIRE	1	
W6	QEXGVH03055B	WIRE WITH CONNECTOR	1	
X1	EFOEN4194T4	OSCILLATOR	1	CPL
X1	QSXG1A1600A	CERAMIC OSCILLATOR	1	H0H160500010 MAIN
X2	QSXG1A4515A	CERAMIC OSCILLATOR	1	MAIN
X701	RSXZ16M9M01T	OSCILLATOR	1	H2A169500005 RAD3301A-C

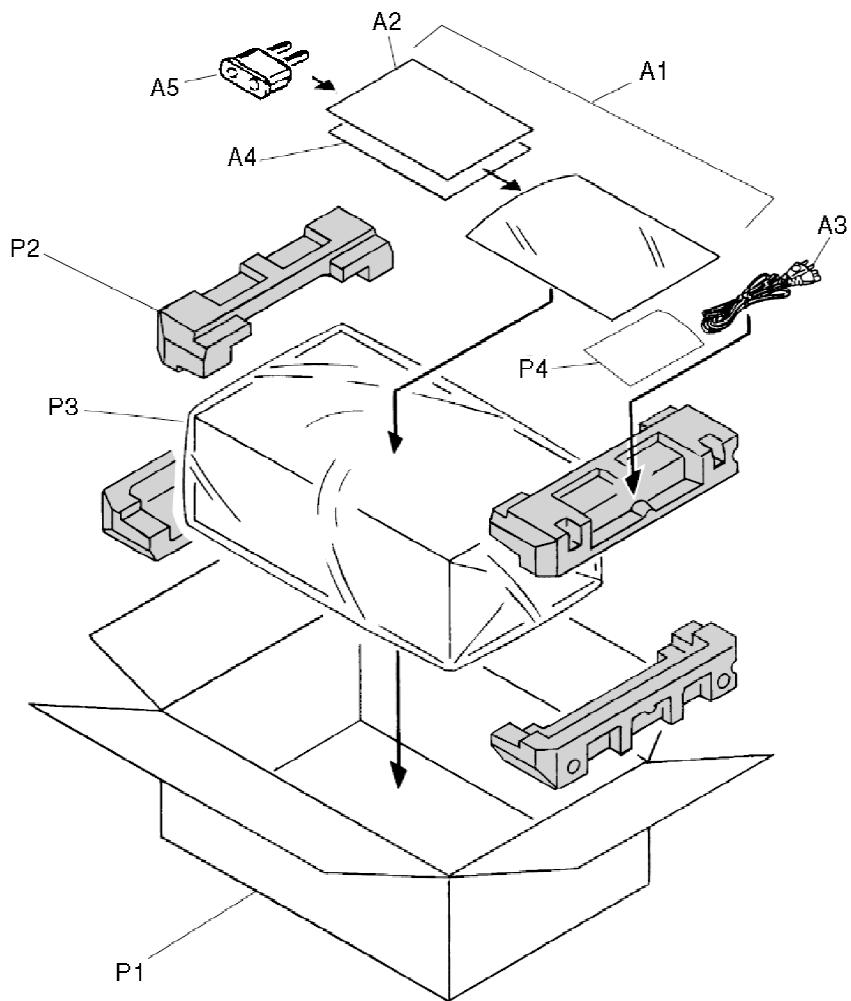
18. CABINET PARTS LOCATION



We do not supply those items of parts marked *.



19. PACKAGING



/ Printed in Japan / S010700000 HM/AM

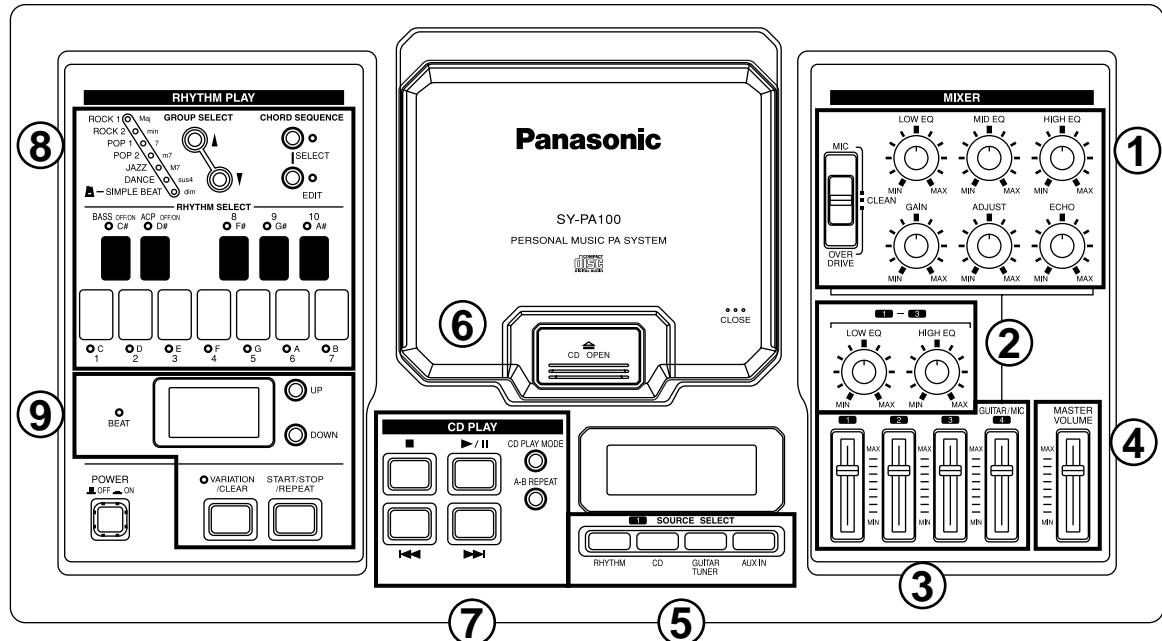
Ref No.	IC1																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
MODE	1	2.4	2.4	0	0	3.6	3.7	0	3.8	3.8	3.8	3.8	3.8	3.6	3.6	3.3				
STOP	0	2.4	2.4	0	0	3.6	3.7	0	3.8	3.8	3.8	3.8	3.8	3.6	3.6	3.3				
Ref No.	IC2																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
MODE	1.7	1.7	0	1.7	0	1.1	2.2	3.3	1.8	1.8	0	0	-	0	0	0	3.5	3.6	0	0
STOP	1.7	1.7	0	1.7	0	1.1	2.2	3.3	1.8	1.8	0	0	-	0	0	0	3.5	3.6	0	0
Ref No.	IC2																			
	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	0	0	3.4	3.3	-	0	0	-	-	0	3.6	0.1	3.6	0	0	0	-	0	3.6	0
Ref No.	IC2																			
	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	0	0	-	-	-	3.6	-	-	-	0	3.6	-	-	-	-	-	-	-	-	-
Ref No.	IC2																			
	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7	1.7	1.7
Ref No.	IC2																			
	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
STOP	0	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Ref No.	Q1				Q2				Q3				Q4				Q5			
	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	
STOP	3.6	0	2.3	3.6	0	2.3	3.6	0	2.3	3.6	0	2.3	3.6	0	2.3	3.6	0	2.3	3.6	
Ref No.	Q7				Q8				Q9				Q10				Q11			
	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	
STOP	3.6	0	2.3	3.6	0	2.3	3.3	1.8	3.5	3.3	1.8	3.5	3.3	1.8	3.5	3.3	1.8	3.5	3.3	
Ref No.	Q13				Q14				Q16											
	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	
STOP	3.3	1.8	3.5	3.3	1.8	3.5	0	3.6	0	E	C	B	E	C	B	E	C	B	E	

Ref No.	IC1														
MODE	1	2	3	4	5	6	7	8							
STOP	0	0	0	0	0	0.4	20.4	15.0							
Ref No.	IC2														
MODE	1	2	3	4	5	6	7	8							
STOP	0	0	0	-15	0	0	0	15							
Ref No.	IC3														
MODE	1	2	3	4	5	6	7	8							
STOP	0	0	0	-15	0	0	0	15							
Ref No.	IC4														
MODE	1	2	3	4	5	6	7	8							
STOP	0	0	0	-15	0	0	0	15							
Ref No.	IC5														
MODE	1	2	3	4	5	6	7	8							
STOP	0	0	0	-15	0	0	0	15							
Ref No.	IC6														
MODE	1	2	3	4	5	6	7	8							
STOP	0	0	0	-15	0	0	0	15							
Ref No.	IC7														
MODE	1	2	3	4	5	6	7	8							
STOP	0	0.9	2.5	2.5	0	0	0	15							
Ref No.	IC7														
MODE	1	2	3	4	5	6	7	8							
STOP	0	0	0	-15	0	0	0	15							
Ref No.	Q1			Q2			Q3			Q4			Q5		
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
STOP	0	0	0.3	0	15	0	0	-15	0	0	15	0	0	-15	-15

Ref No.	IC1																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	0	3.3	-	-	4.1	0	2.9	1.8	3.6	0	0	13	3.6	0	0	3.6	0	0	0
Ref No.	IC1																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	-	0	0	-	3.3	0	1.6	0	0	3.7	0	0	0	0	3.6	0	0	0	0	3.6
Ref No.	IC1																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	0	0	0	3.3	1.6	1.4	1.5	1.6	0	0	0	0	0	2.0	1.6	2.1	1.4	1.8	1.8	1.7
Ref No.	IC1																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	0	0	3.3	-	2.7	-	-	2.6	0	0.3	2.5	1.5	1.2	1.1	1.2	0.9	0	0	0	0
Ref No.	IC1																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
STOP	0	0	0	1.9	1.8	1.8	0.3	0	3.6	0	0	3.6	3.6	3.6	0	0	0	0	0	0
Ref No.	IC2																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	0	0	17.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ref No.	IC2																			
MODE	21	22	23	24	25	26	27	28												
STOP	0	0	0	0	0	0	0	0	3.3											
Ref No.	IC3																			
MODE	1	2	3	4	5	6	7	8												
STOP	3.6	1.8	3.2	0	0	1.8	0	3.3												
Ref No.	IC4																			
MODE	1	2	3	4	5	6	7	8												
STOP	0	0	0	0	3.6	0	0	3.3												
Ref No.	IC5																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	1.8	1.8	1.6	0	0	1.3	0	3.3	2.1	1.6	0	0	0	0	0	1.3	0	1.6	1.5	0
Ref No.	IC5																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	0	-	3.3	-	-	-	-	-	-	-	-	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	0
Ref No.	IC5																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	3.3	3.3	-	-	0	-	0	0	0	1.8	0	3.2	1.8	0	1.8	3.6	0	3.3	0	0
Ref No.	IC5																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	1.8	0	1.8	0	1.8	0	0	1.2	1.9	1.7	0	18	3.3	1.7	1.7	0	1.8	-	1.7	1.7
Ref No.	IC6																			
MODE	1	2	3																	
STOP	20.1	0	15																	
Ref No.	IC7																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	0	0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0	1.9	1.7	1.7	1.8	0	1.8
Ref No.	IC7																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	1.8	1.8	3.3	0	0	1.7	0	1.7	0	0	1.2	0	3.3	0	0	0	0	0	0	3.2
Ref No.	IC7																			
MODE	41	42	43	44																
STOP	1.8	1.8	3.3	3.3																
Ref No.	IC8																			
MODE	1	2	3	4	5	6	7	8												
STOP	0	1.7	0	0	1.8	0	0	3.3												
Ref No.	IC9																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	0	0	-15	0	0	0	15												
Ref No.	IC11																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	0	0	-15	0	0	0	15												
Ref No.	IC12																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	0	0	-15	0	0	0	15												
Ref No.	IC13																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	0	0	-15	0	0	0	15												
Ref No.	IC14																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	-	-	2.7	1.1	2.0	1.8	1.6	2.0	2.0	0	1.9	1.3	0	1.8	1.6	1.7	1.4	2.0	1.5	0
Ref No.	IC14																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	0	2.1	3.3	1.4	1.4	1.3	1.8	1.5	0	1.5	1.6	0	3.3	0.2	2.4	0	1.2	1.1	1.3	0.9
Ref No.	IC14																			
MODE	41	42	43	44																
STOP	2.5	1.5	3.6	3.3																
Ref No.	IC17																			
MODE	1	2	3	4	5	6	7	8												
STOP	0	0	0	-15	0	4.9	5.0	15												
Ref No.	IC18																			
MODE	1	2	3																	
STOP	0	0	-15																	

Controls and functions

Operation panel



MIXER section

(1) INPUT 4 sound quality adjustment section

Adjust the sound quality of the guitar or microphone connected to the **INPUT 4 GUITAR/MIC** terminal.

(2) INPUT 1 to 3 sound quality section

Adjust the total sound quality from **INPUT 1, 2 and 3**.

(3) Volume mixer section

Adjust the volume from **INPUT 1 to 4**.

(4) MASTER VOLUME

Adjust the total volume of the **PA100**.

(5) [1] SOURCE SELECT

Select an input source for **INPUT 1**.

CD PLAY section

(6) CD cover

Open the cover to position a CD in the player.

(7) CD operating section

Play a CD

RHYTHM PLAY section

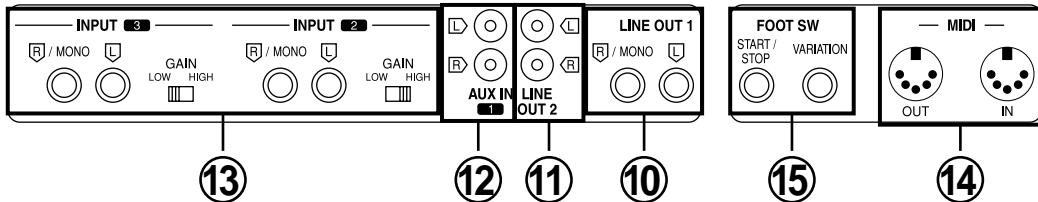
(8) Rhythm select section

Select a rhythm and chord progression.

(9) Rhythm operation section

Start and stop the rhythm, and adjust the tempo.

Rear panel



(10) LINE OUT 1 (stereo/monaural M6)

Output the sound from the **PA100**. (The sound from this terminal is not affected by the **MASTER VOLUME** setting).

- To output monaural sound, connect to the **R/MONO** terminal; do not connect anything to the **L** terminal in this case.

(11) LINE OUT 2 (stereo RCA pin plug)

Output the sound from the **PA100**. (The sound from this terminal is not affected by the **MASTER VOLUME** setting).

(12) AUX IN 1 (stereo RCA pin plug)

Input stereo sound from external equipment.

(13) INPUT 2, INPUT 3 (stereo/monaural M6)

Input sound from external equipment.

- Use the **LOW/HIGH** switch to select the gain appropriate for the input source.
- To input monaural sound, connect to the **R/MONO** terminal; do not connect anything to the **L** terminal in this case.

(14) MIDI

IN: The terminal to receive MIDI data

OUT: The terminal to transmit MIDI data

- Use a commercially sold MIDI cable for these connections.

(15) FOOT SW

When a separately sold Foot Switch (**SZ-P1**) is connected, the **VARIATION** on/off and **START/STOP** can be controlled with your foot.

Symptoms which appear to be signs of trouble

The following changes in performance may occur but do not indicate equipment trouble or malfunction.

	Phenomenon	Remedy
General	No sound is produced.	<ul style="list-style-type: none"> The volume level for the input device is at the minimum setting. Use the INPUT 1 to INPUT 4 controls, or the MASTER VOLUME control, to set the volume to an appropriate level. The volume setting of the connected equipment is set to the minimum level.
Guitar/ microphone	The guitar/mic volume is too low.	<ul style="list-style-type: none"> The correct performance mode is not selected. Select the correct input mode.
	The guitar does not sound, or the sound is distorted.	<ul style="list-style-type: none"> The volume setting on the guitar is set to the minimum.
	Noise is produced when the guitar is connected.	<ul style="list-style-type: none"> When not playing the guitar, turn the guitar volume to the minimum setting.
CD	"E" appears on the display.	<ul style="list-style-type: none"> Misoperation. Refer to the Owner's Manual and perform the correct operation.
	Performance is not possible. A CD is inserted, but the track number etc. does not appear on the display.	<ul style="list-style-type: none"> Is the CD inserted upside down? Is the CD a non-standard CD? A severely deformed or scratched CD cannot be played. When the device is suddenly moved from a cold to a warm environment, for example, condensation may form on the lens. Wait for about an hour for the moisture to evaporate before trying again.
	A particular section of the CD cannot be played.	<ul style="list-style-type: none"> If the CD is soiled, use a soft cloth to wipe it clean.
	The CD sound is interrupted.	<ul style="list-style-type: none"> If the input signal from the CD playback volume, the microphone or the guitar is too strong, the CD playback may become unstable. Lower the playback volume.

About the backup memory

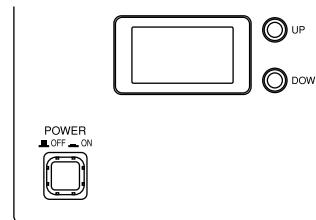
The following settings are maintained even when the power is turned off or the power cord is unplugged.

- Panel settings (rhythm group, rhythm number, **VARIATION**, **BASS** and **ACCOMP** on/off status)
- Chord sequence settings for each rhythm (number and transposition status), tempo
- Chord sequence user memory contents
- All other settings are lost when the power to this device is turned off.

Initialize

The rhythm and chord sequence settings, and the panel settings can be reset to the factory-preset status.

⇒ With the power to this device turned off, while pressing the **UP** and **DOWN** buttons at the same time, turn the power on.



- If initialization was successful, «Ini» appears on the display.

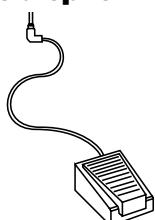
<To initialize all data>

In addition to the above settings, the contents of the chord sequence user memories can also be initialized.

⇒ With the power turned off, while pressing **BASS OFF/ON** and **10** in the **RHYTHM SELECT** at the same time, turn on the power.

- If initialization was successful, "F.In" appears on the display.

Separately sold option



SZ-P1 Foot Switch

MIDI Implementation Chart

Personal Music PA System [SY-PA100]

Function		Transmitted	Recognized	Remarks
Basic Channel	Default Changed	— —	1–16 —	
Mode	Default Messages Altered	— x —	3 x —	OMNI OFF, POLY mode
Note Number	True voice	x —	0–127 0–127	
Velocity	Note ON Note OFF	x x	○ x	
After Touch	Key's Ch's	x x	x ○	
Pitch Bend		x	○	
Control Change	0,32	x	○	bank select MSB/LSB modulation data entry MSB/LSB volume panpot expression sustain reverb chorus RPN LSB/ MSB all sound off reset all controllers
	1	x	○	
	6,38	x	○	
	7	x	○	
	10	x	○	
	11	x	○	
	64	x	○	
	91	x	○	
	93	x	○	
	100,101	x	○	
	120	x	○	
	121	x	○	
		x		
Prog Change	True #	x —	○ 0–127	
System Exclusive		○	○	
System Common	Song Pos	x	×	
	Song Sel	x	×	
	Tune	x	×	
System Real Time	Clock Commands	x x	×	start/stop, continue
Aux Messages	Local ON/OFF	x	×	
	All Notes OFF	x	○	
	Active Sense	x	○	
	Reset	x	×	
Notes		<ul style="list-style-type: none"> When rhythm playback starts, the ch6 to 10 settings switch. If sounds other than the internal sounds are selected, they may not be reproduced. 		

Mode 1: OMNI ON, POLY
 Mode 3: OMNI OFF, POLY

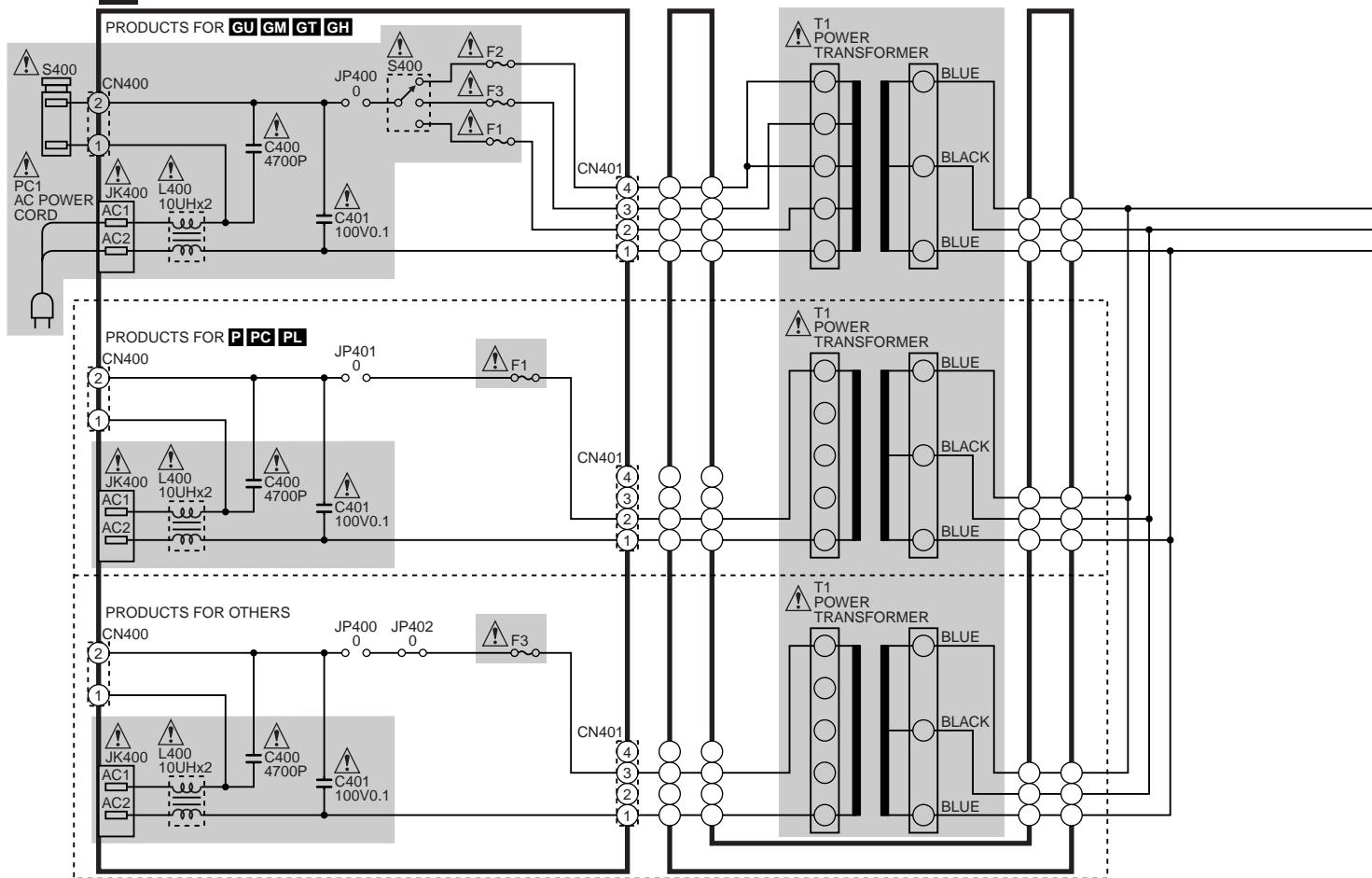
Mode 2: OMNI ON, MONO
 Mode 4: OMNI OFF, MONO

○ : Yes
 x : No

SCHEMATIC DIAGRAM-1

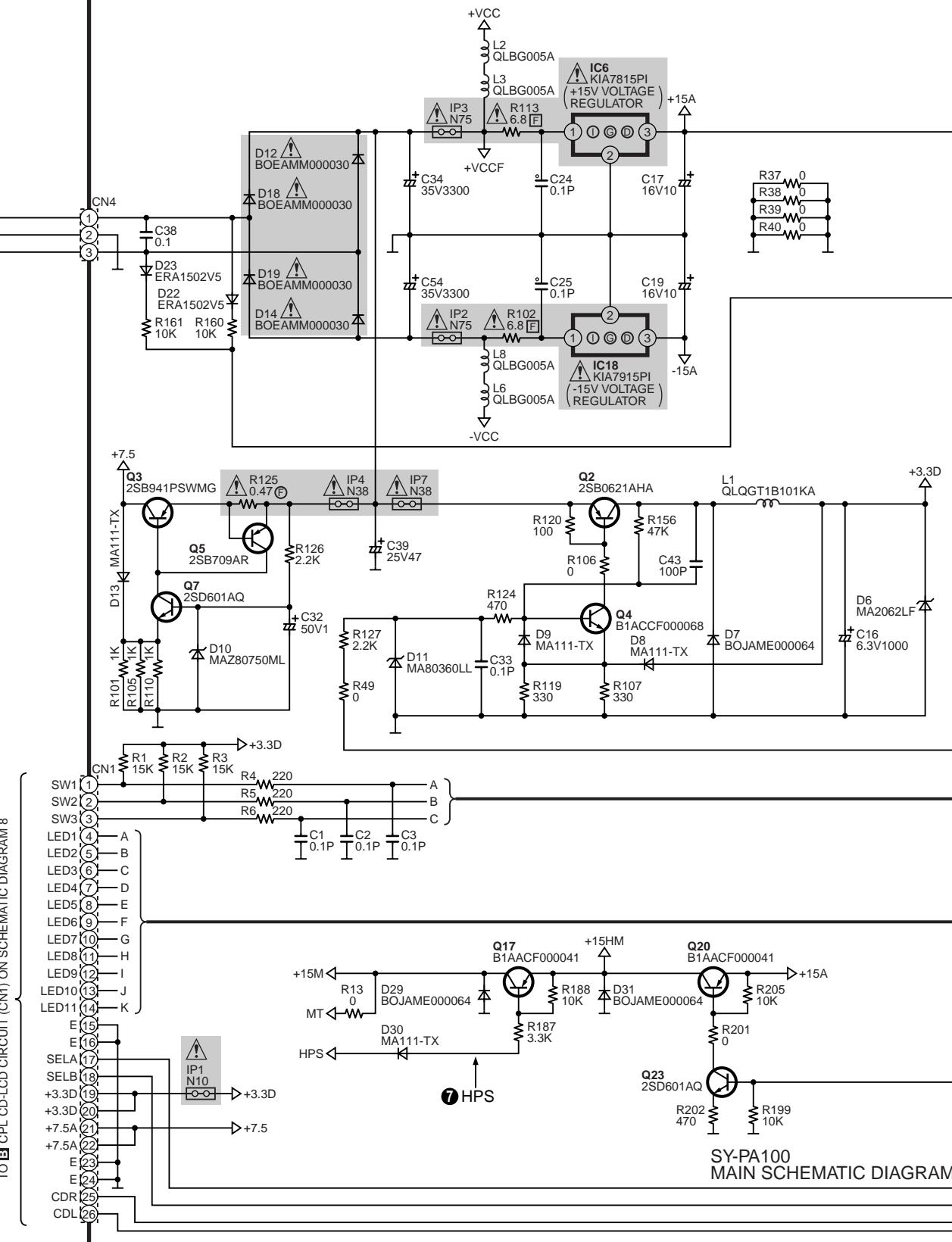
NOTE:
The number which noted at the connectors on the schematic diagram as
"SCHEMATIC DIAGRAM-1" or "SCHEMATIC DIAGRAM-2"
indicates the schematic diagram serial number located on the left corner in the schematic diagram.

D ACP CIRCUIT

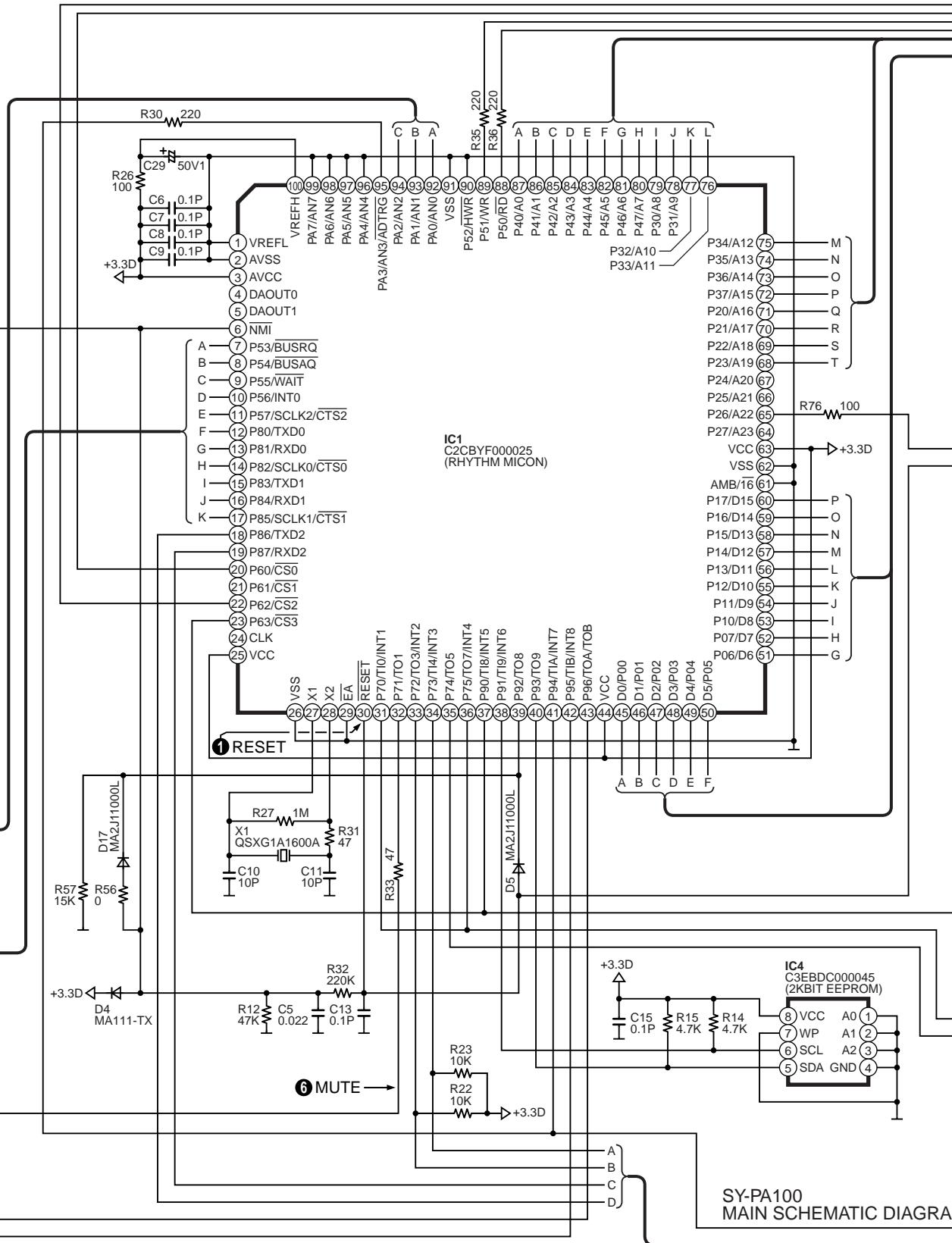


SCHEMATIC DIAGRAM-2

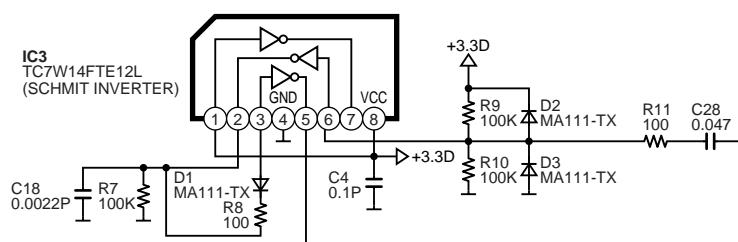
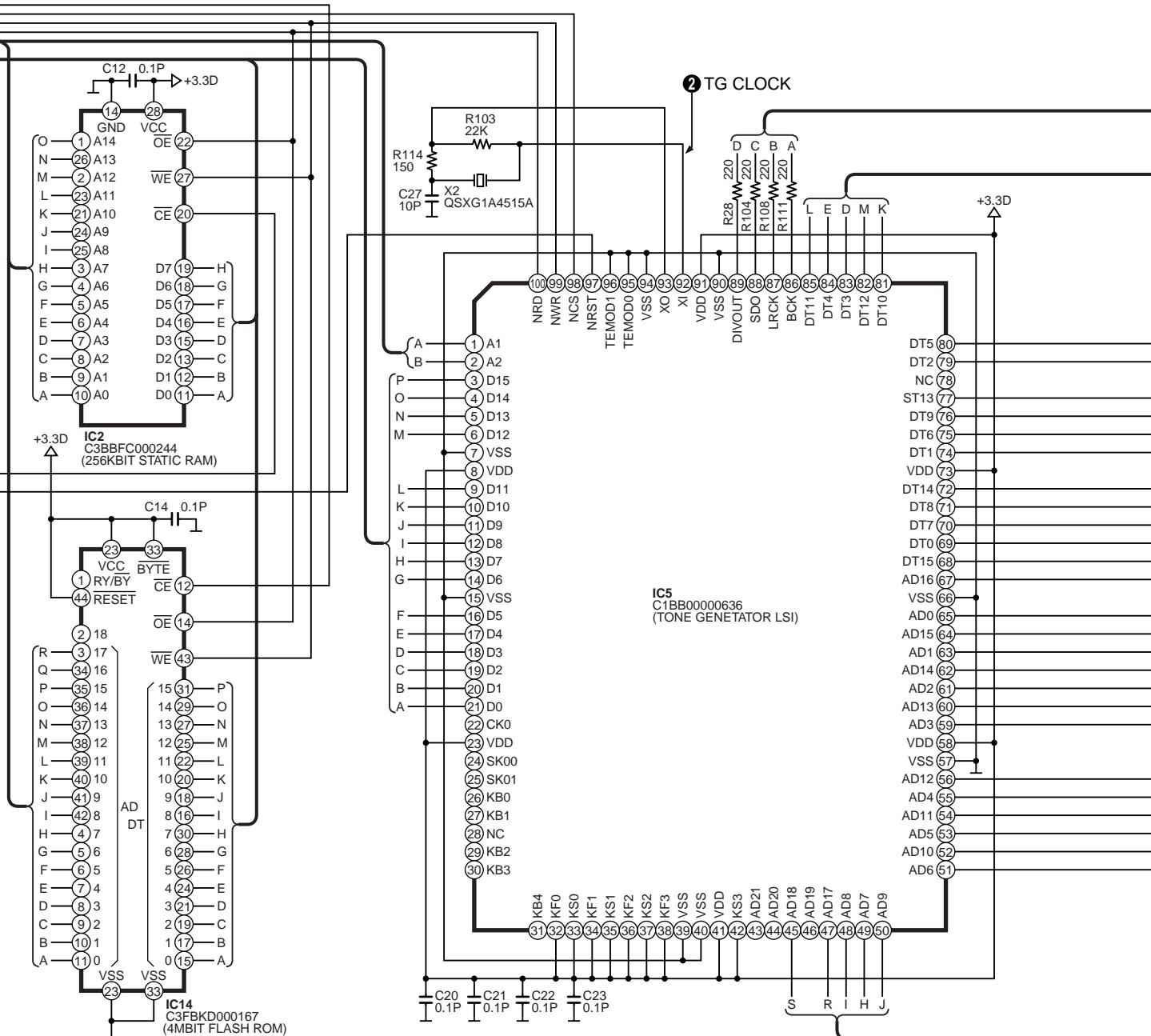
A MAIN CIRCUIT



SCHEMATIC DIAGRAM-3

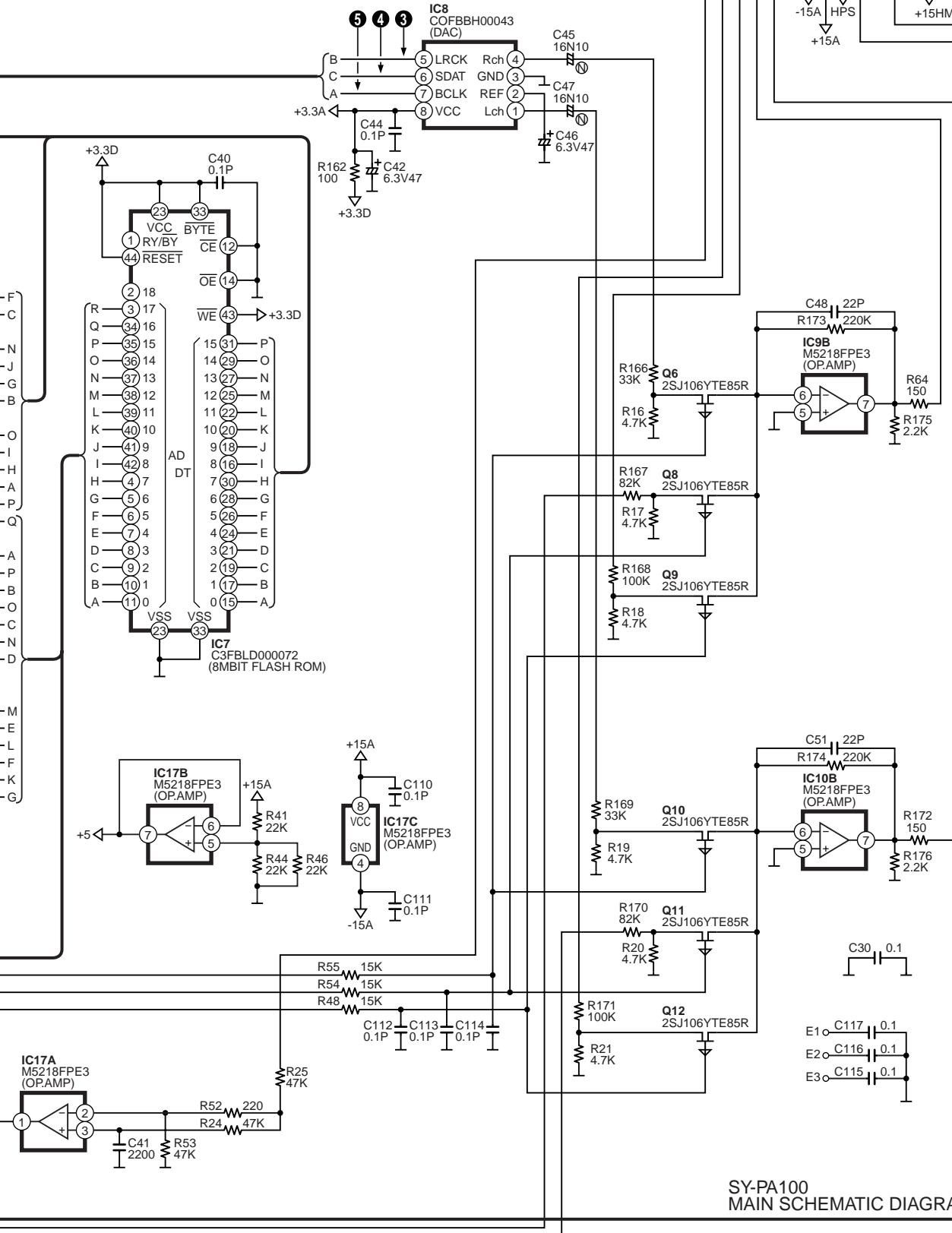


SCHEMATIC DIAGRAM-4

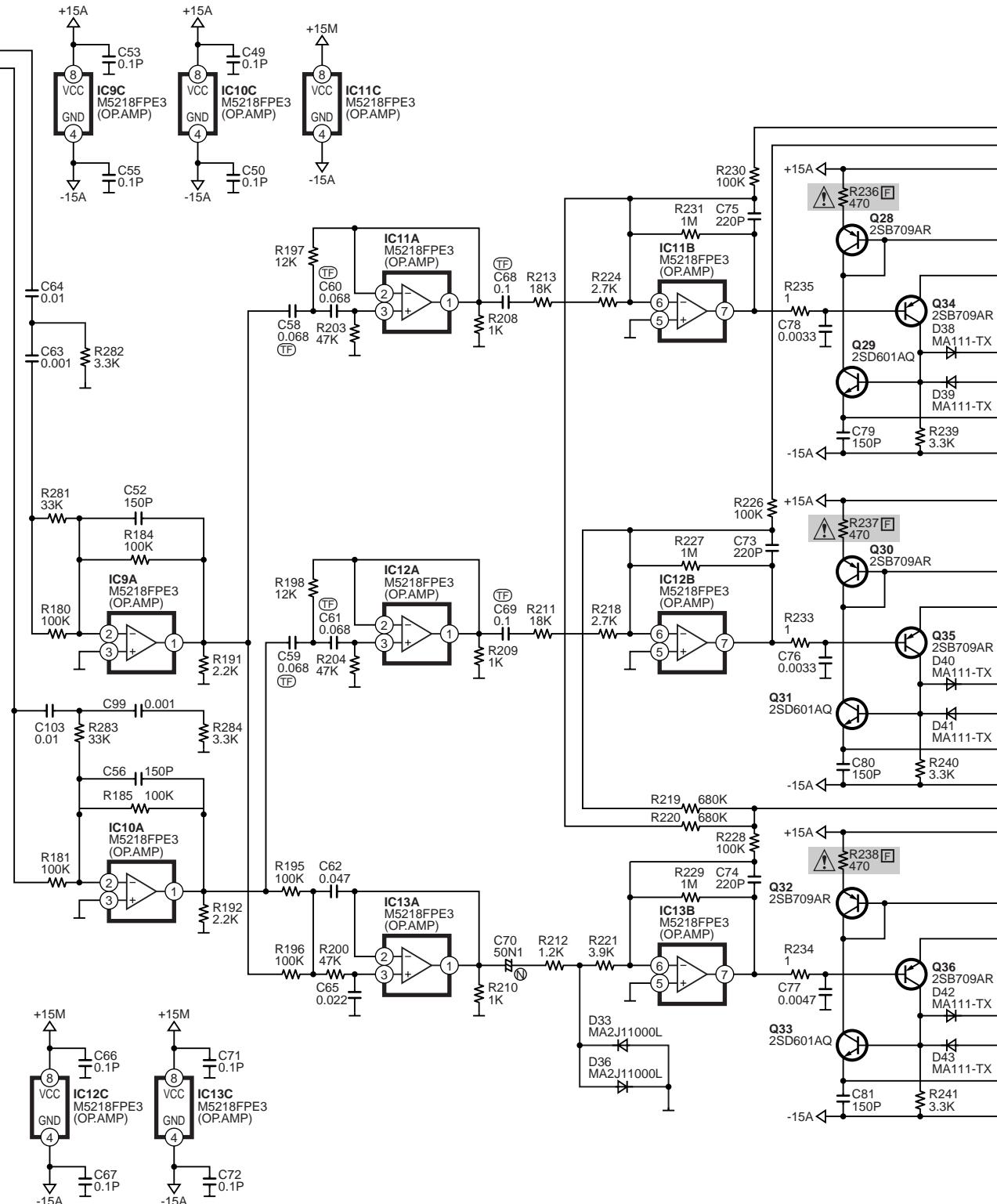


SCHEMATIC DIAGRAM-5

TO C CPR/MIX CIRCUIT
(CN2) ON SCHEMATIC DIAGRAM 13

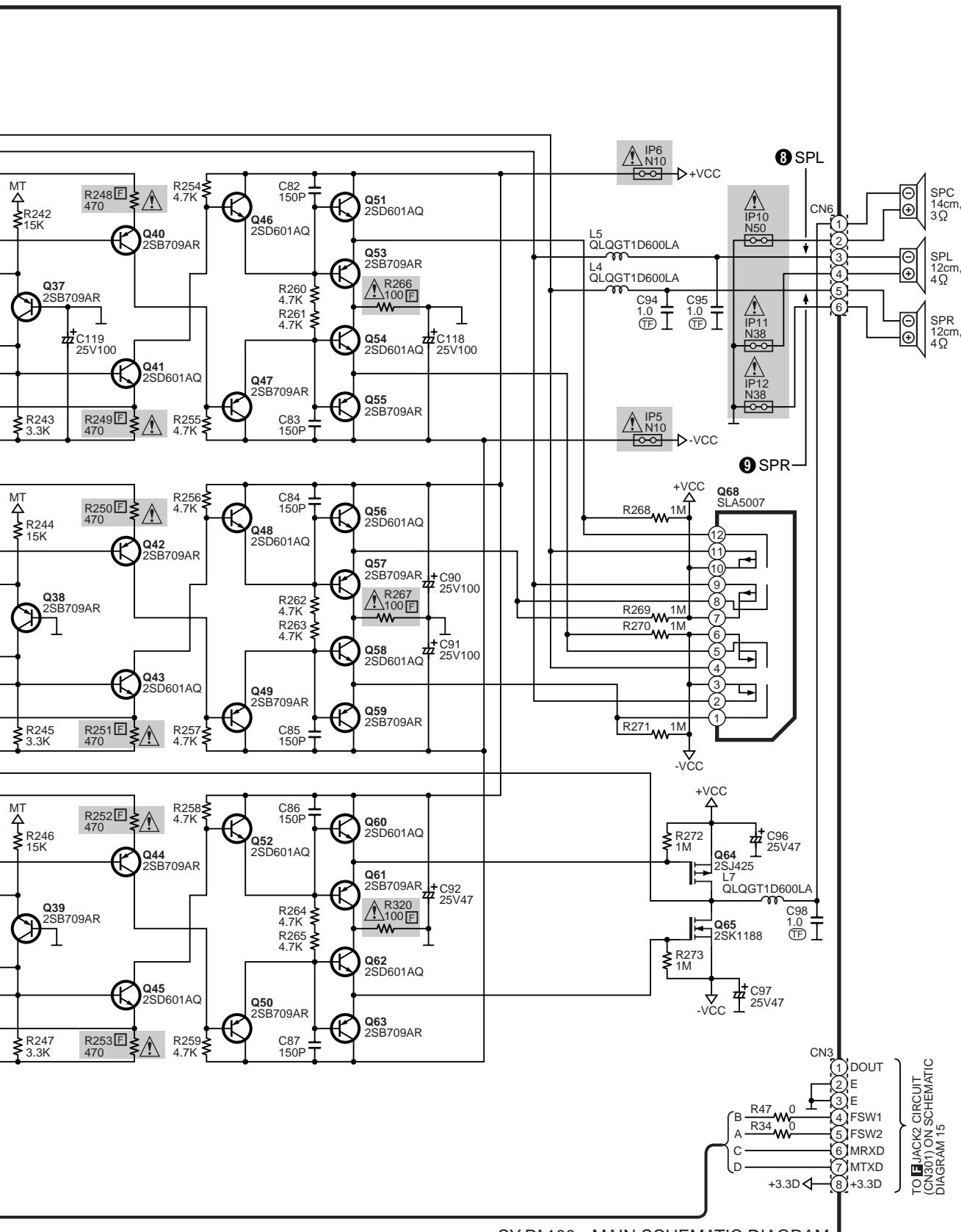


SCHEMATIC DIAGRAM-6



SY-PA100
MAIN SCHEMATIC DIAGRAM

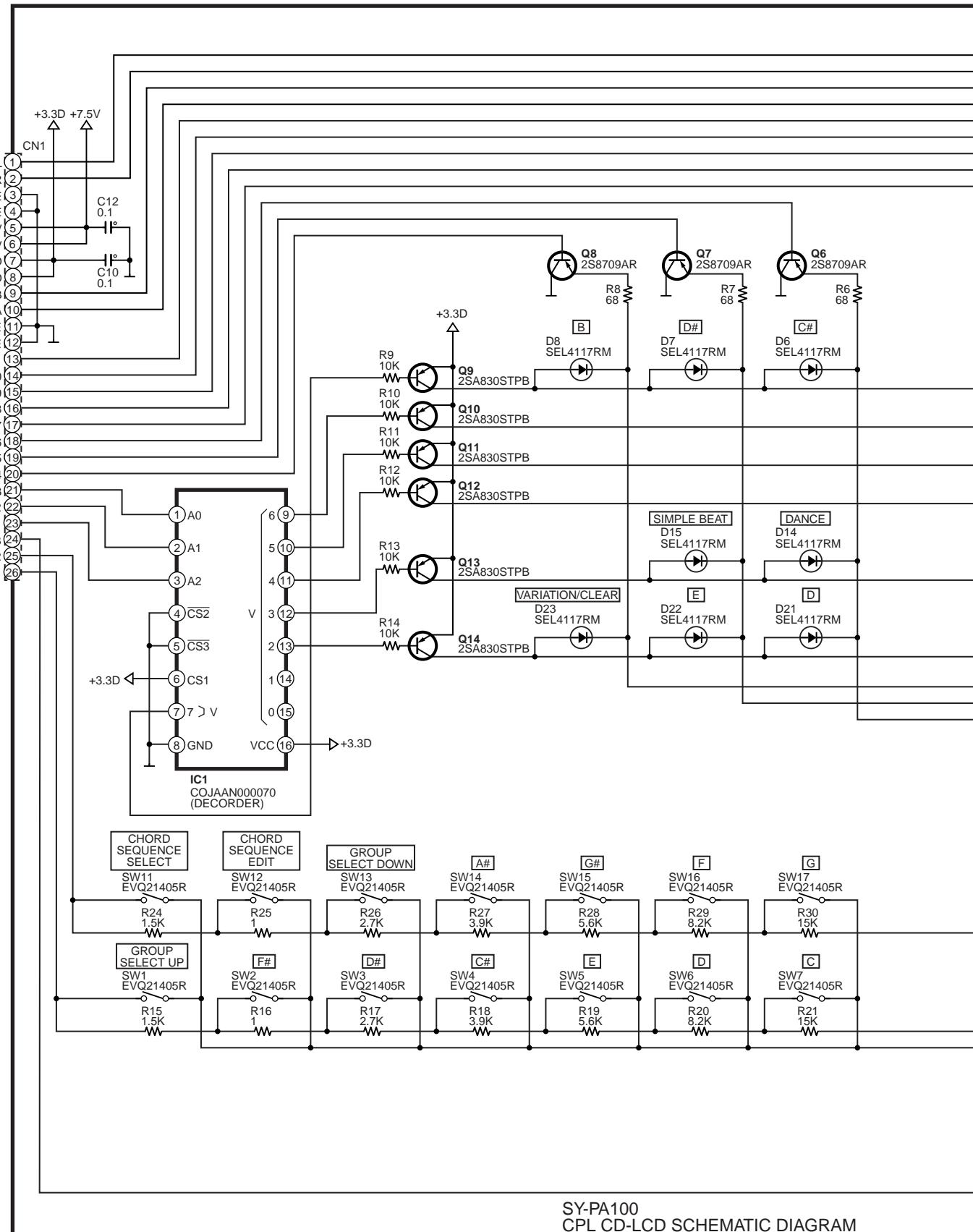
SCHEMATIC DIAGRAM-7



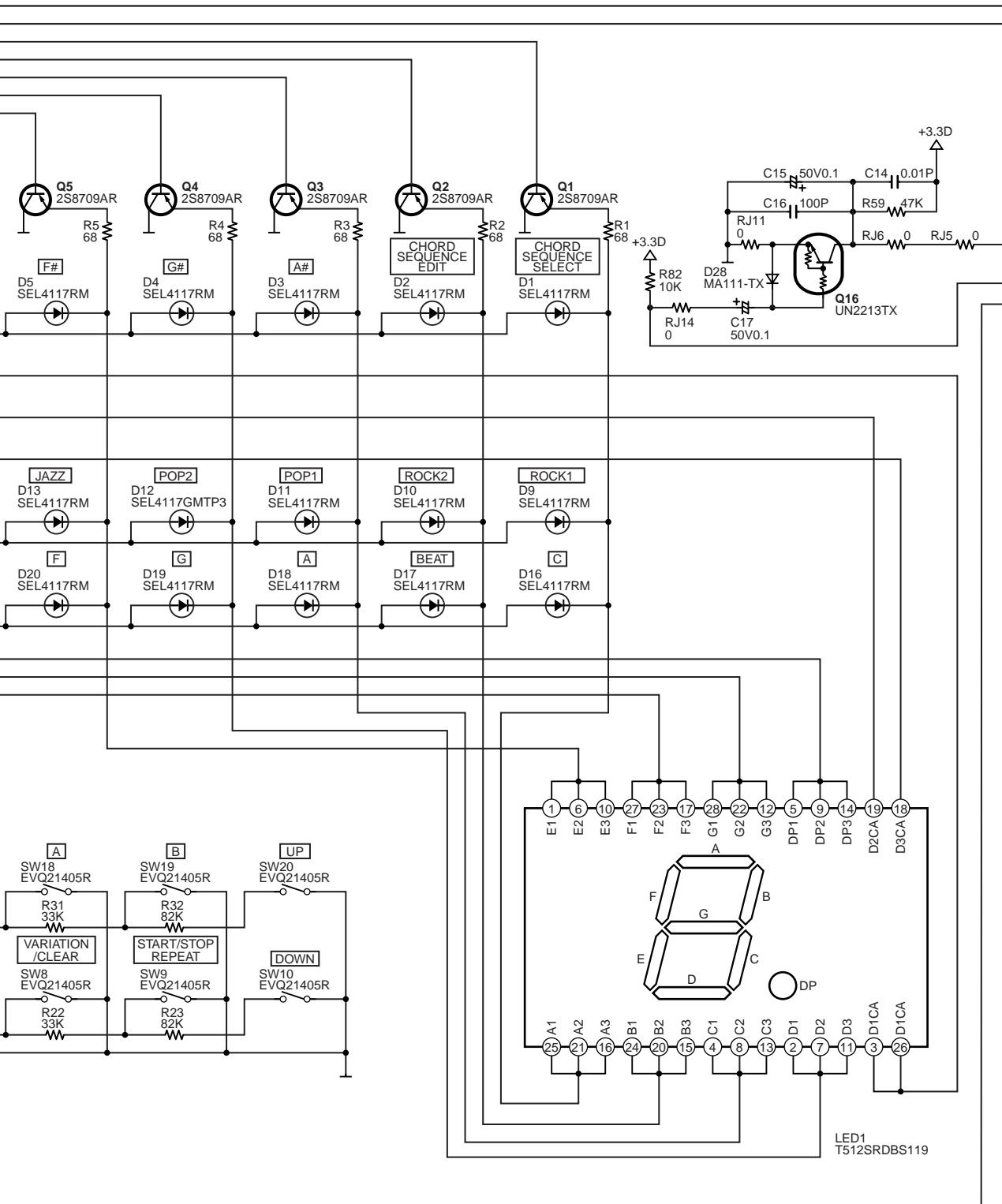
SCHEMATIC DIAGRAM-8

B CPL CD-LCD CIRCUIT

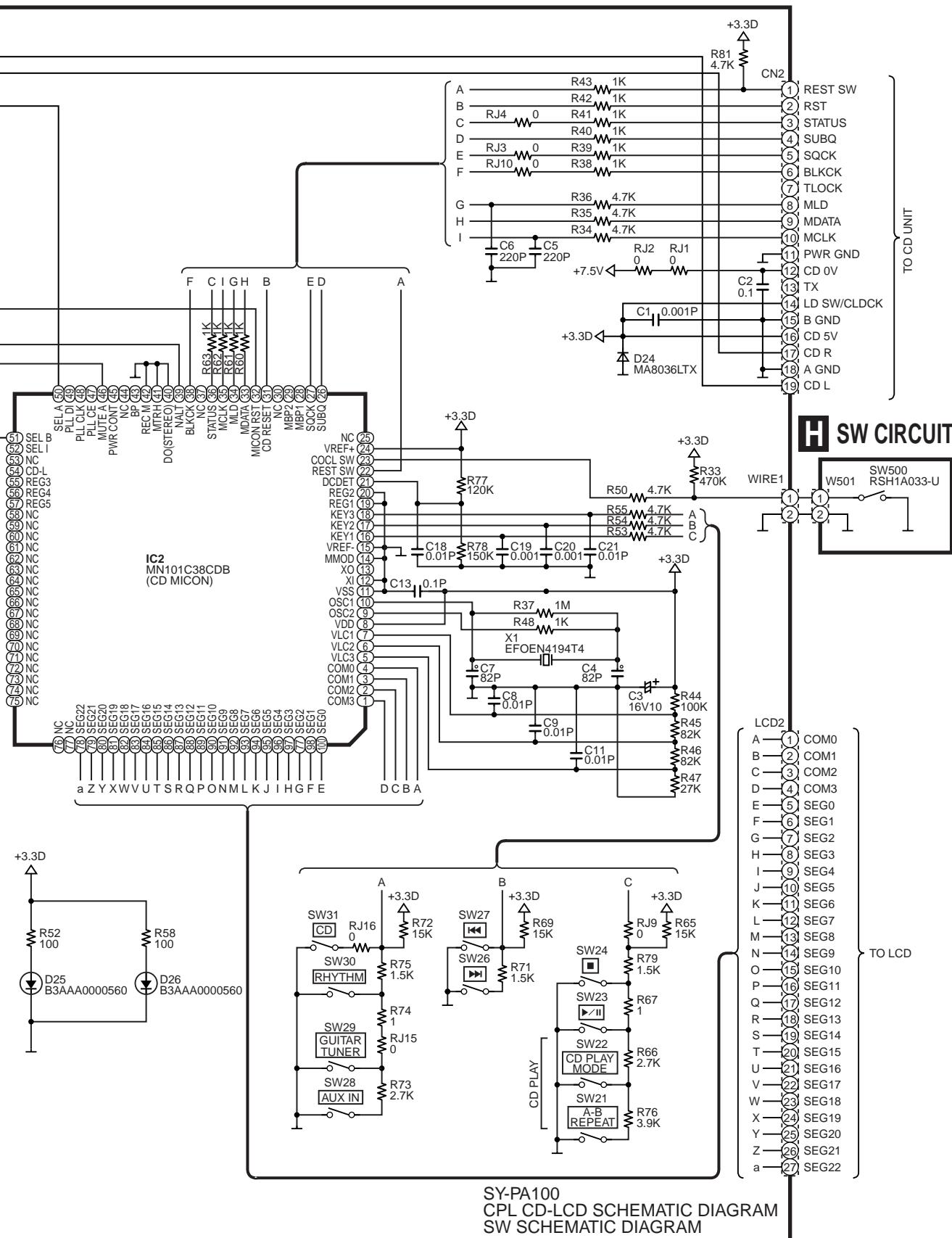
TO A MAIN CIRCUIT (CN1) ON SCHEMATIC DIAGRAM 1



SCHEMATIC DIAGRAM-9

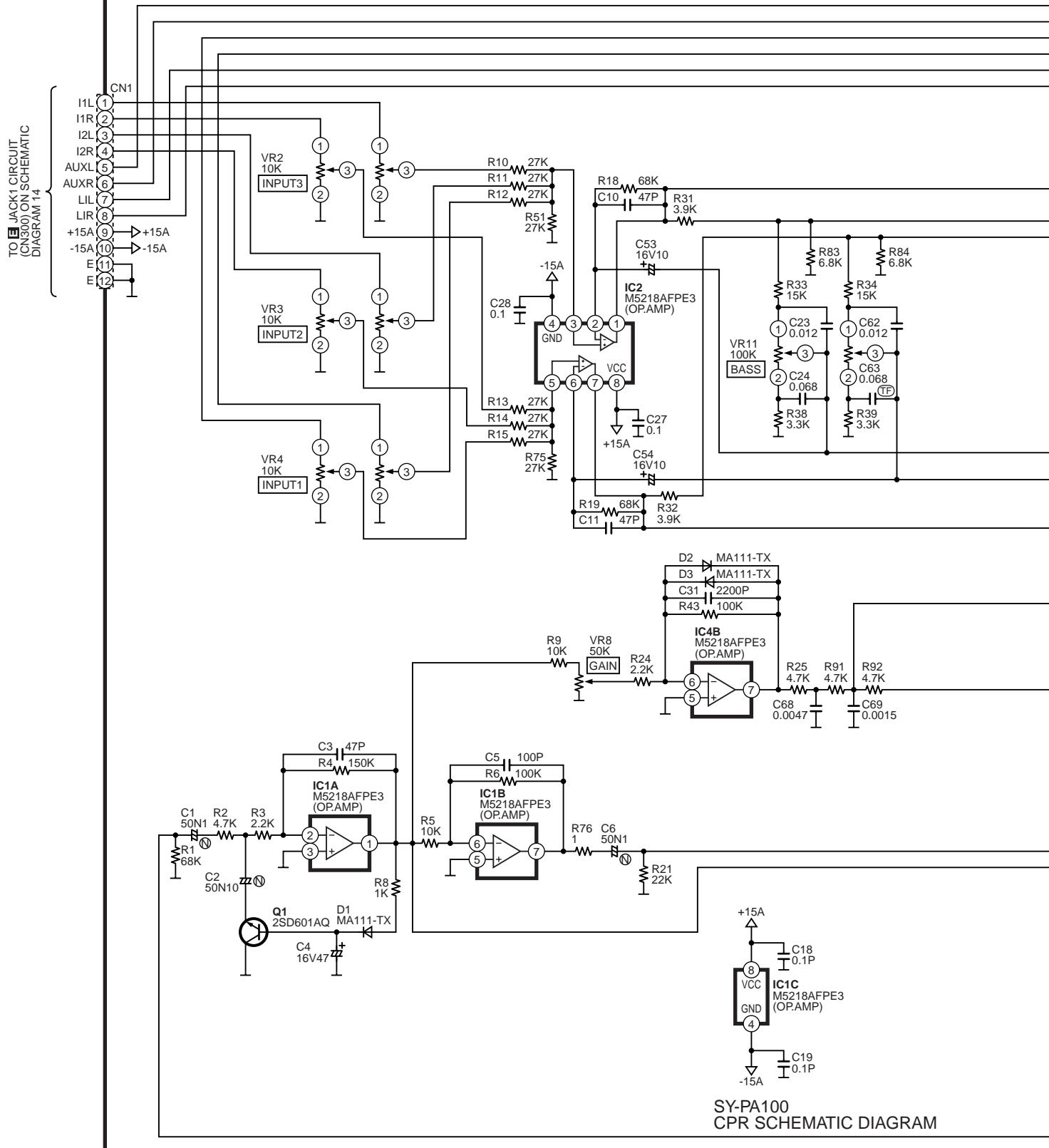


SCHEMATIC DIAGRAM-10

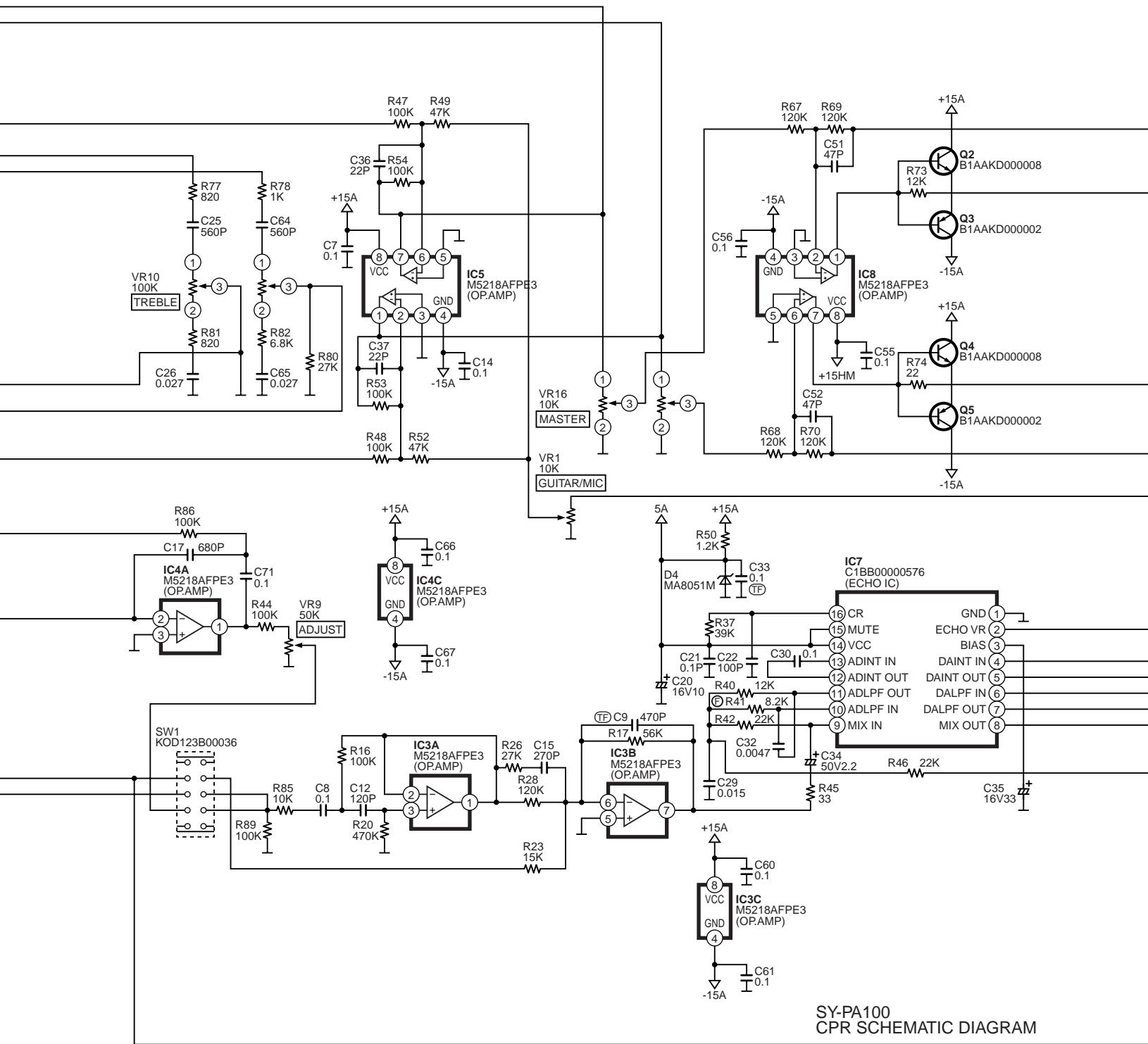


SCHEMATIC DIAGRAM-11

C CPR/MIX CIRCUIT

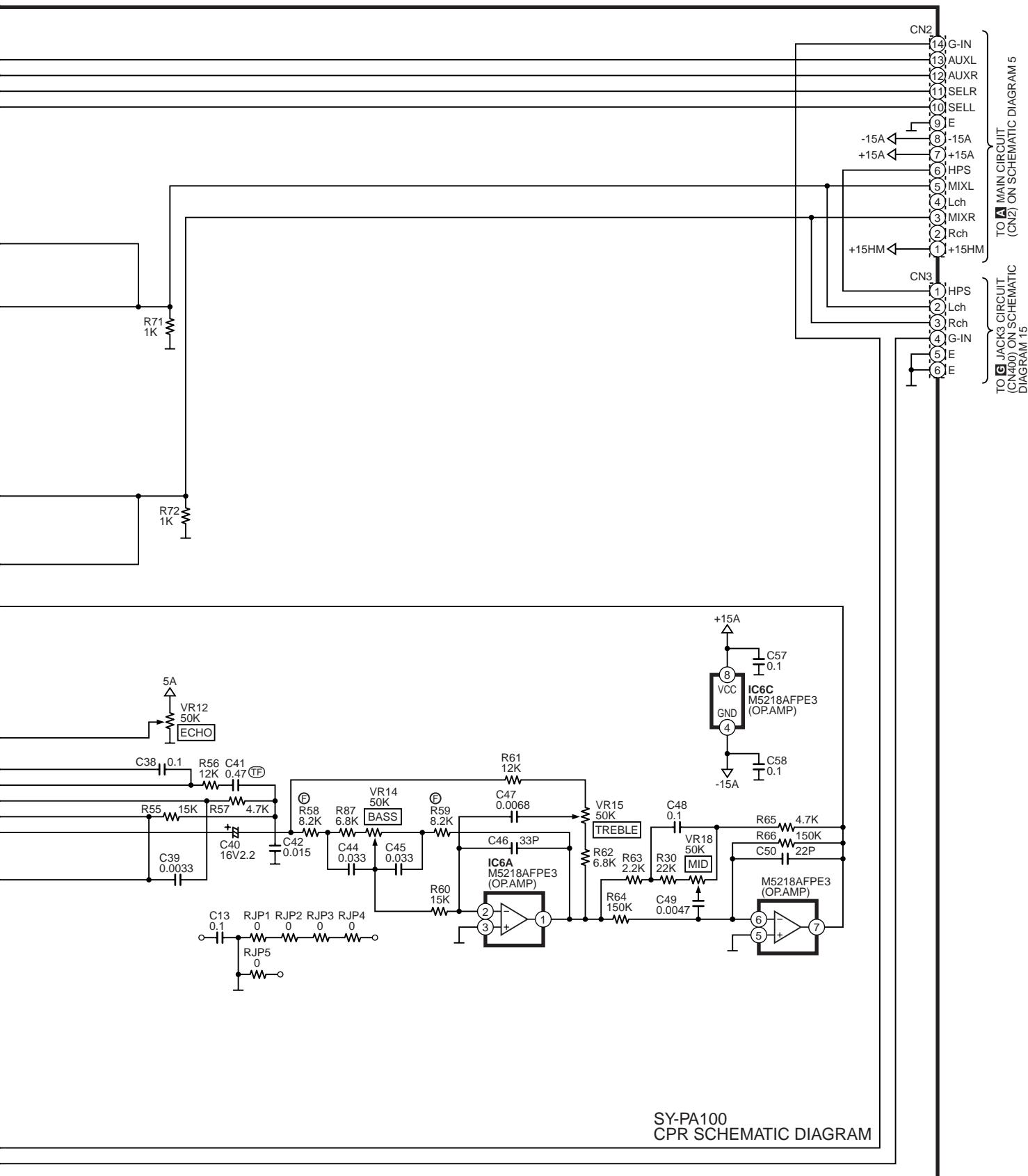


SCHEMATIC DIAGRAM-12



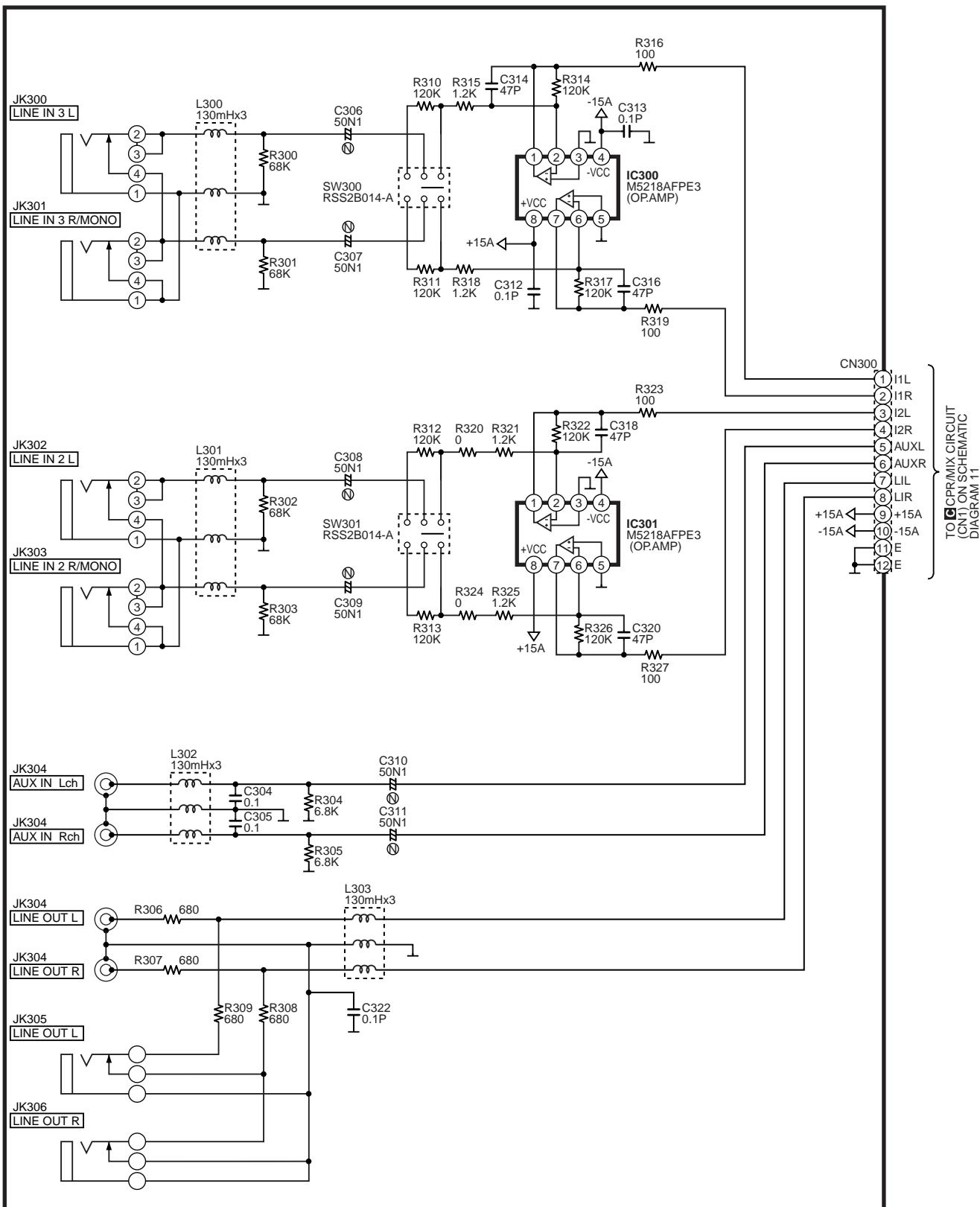
SY-PA100
CPR SCHEMATIC DIAGRAM

SCHEMATIC DIAGRAM-13



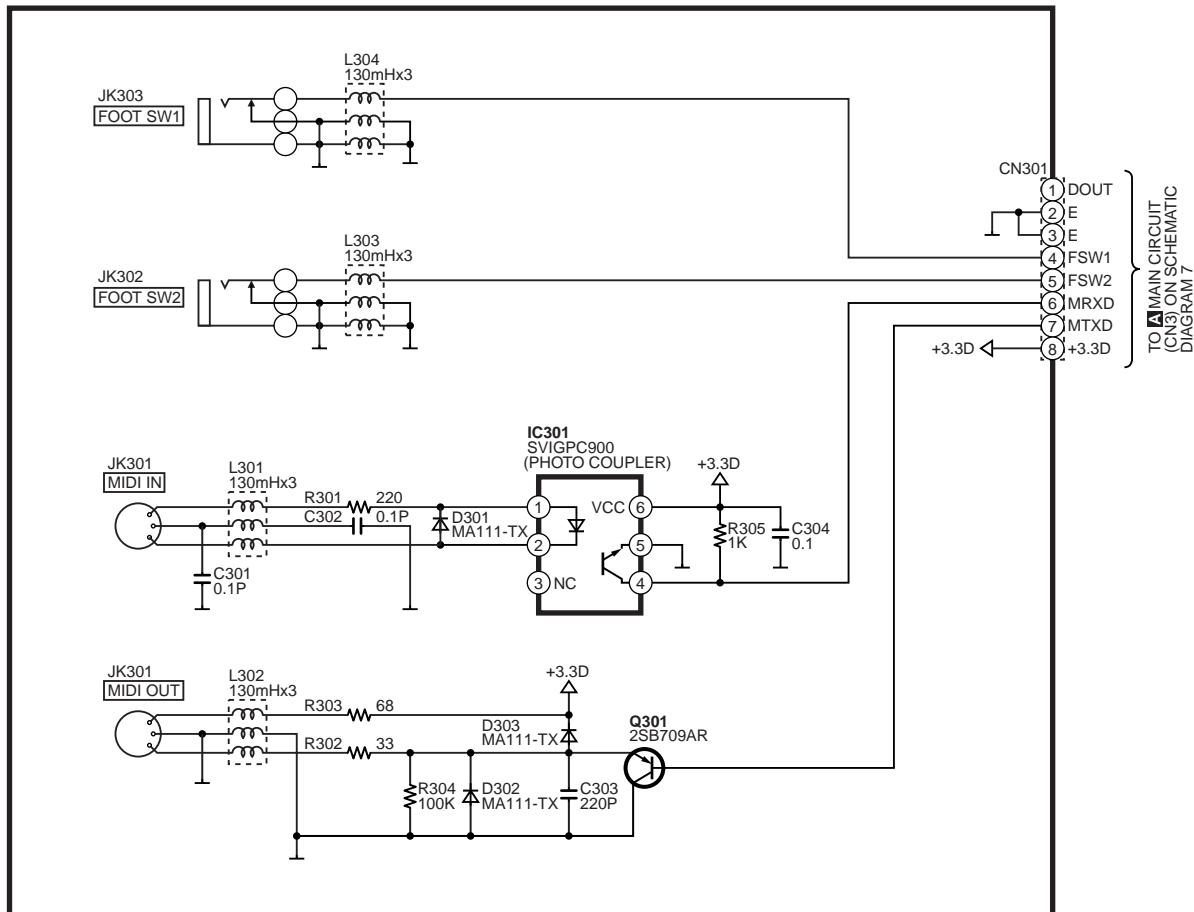
SCHEMATIC DIAGRAM-14

E JACK1 CIRCUIT

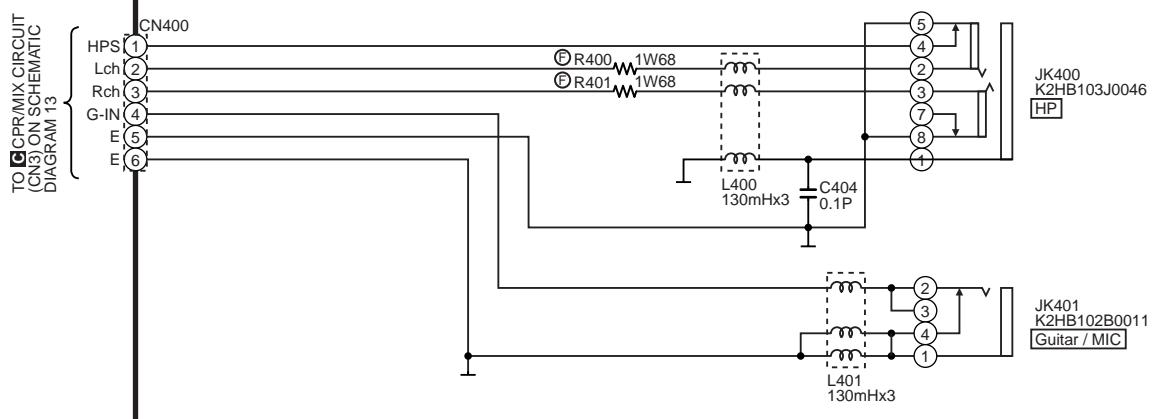


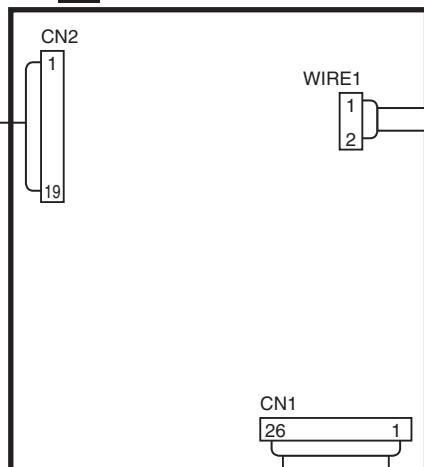
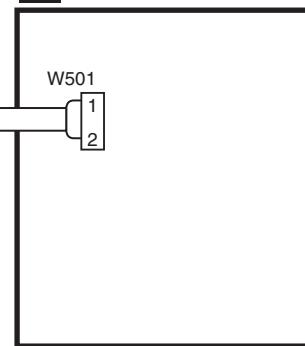
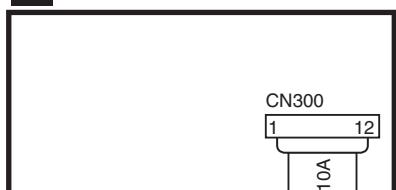
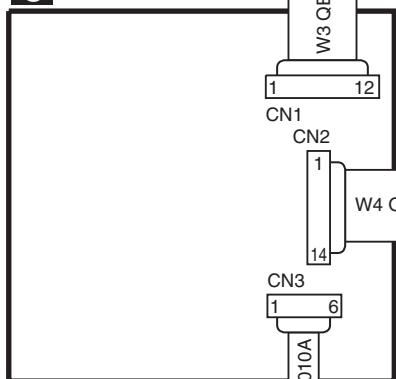
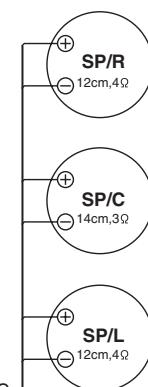
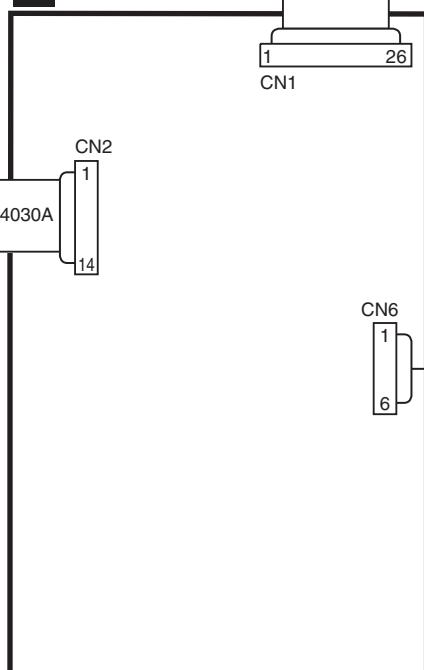
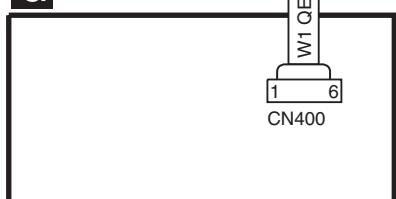
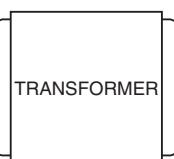
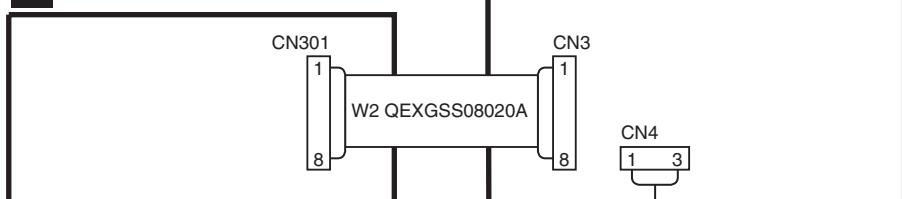
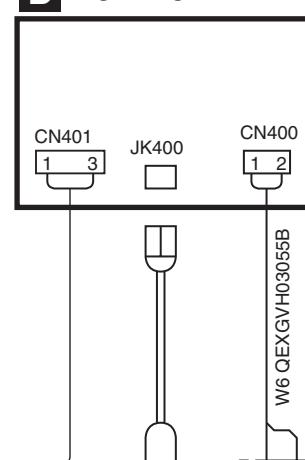
SCHEMATIC DIAGRAM-15

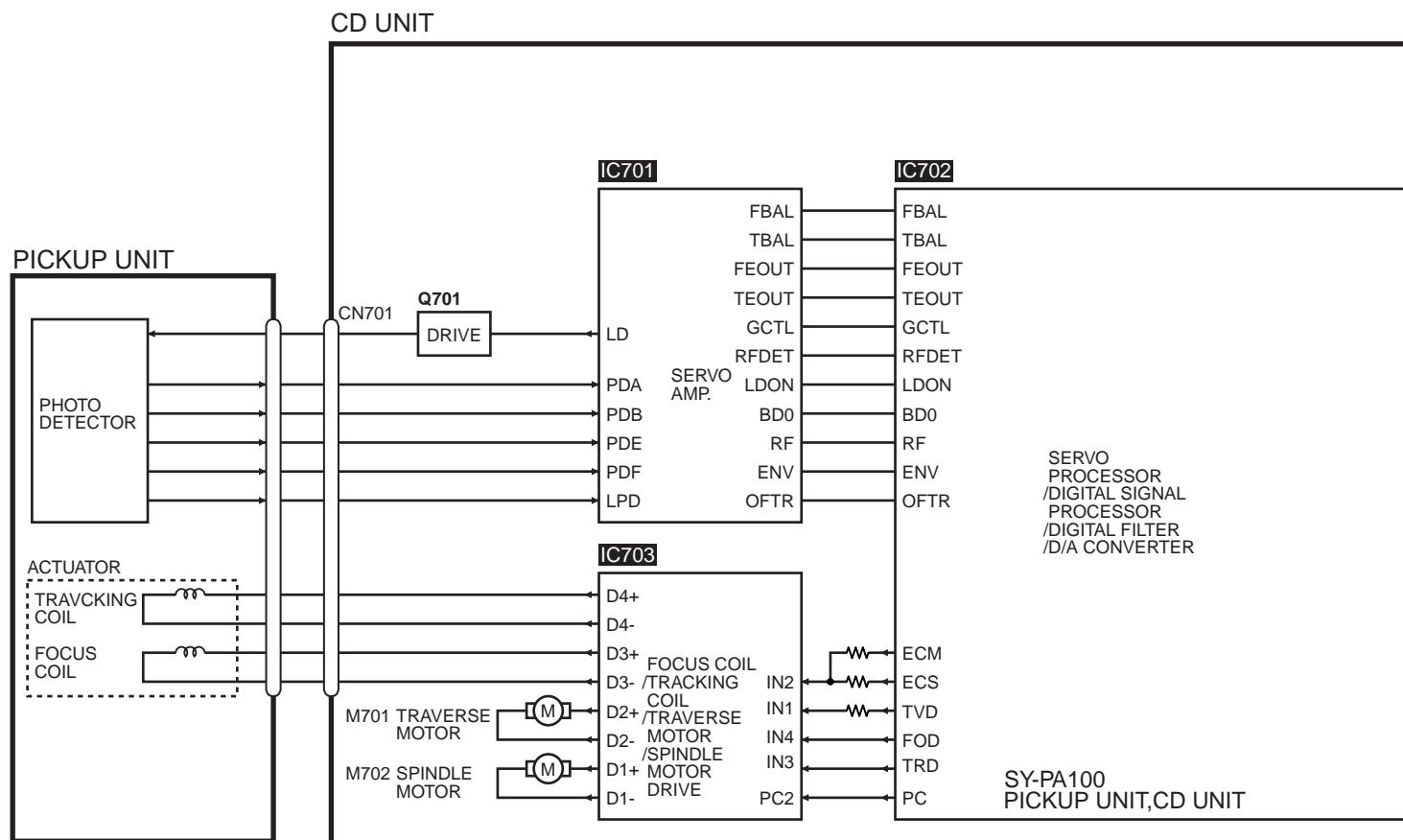
F JACK2 CIRCUIT

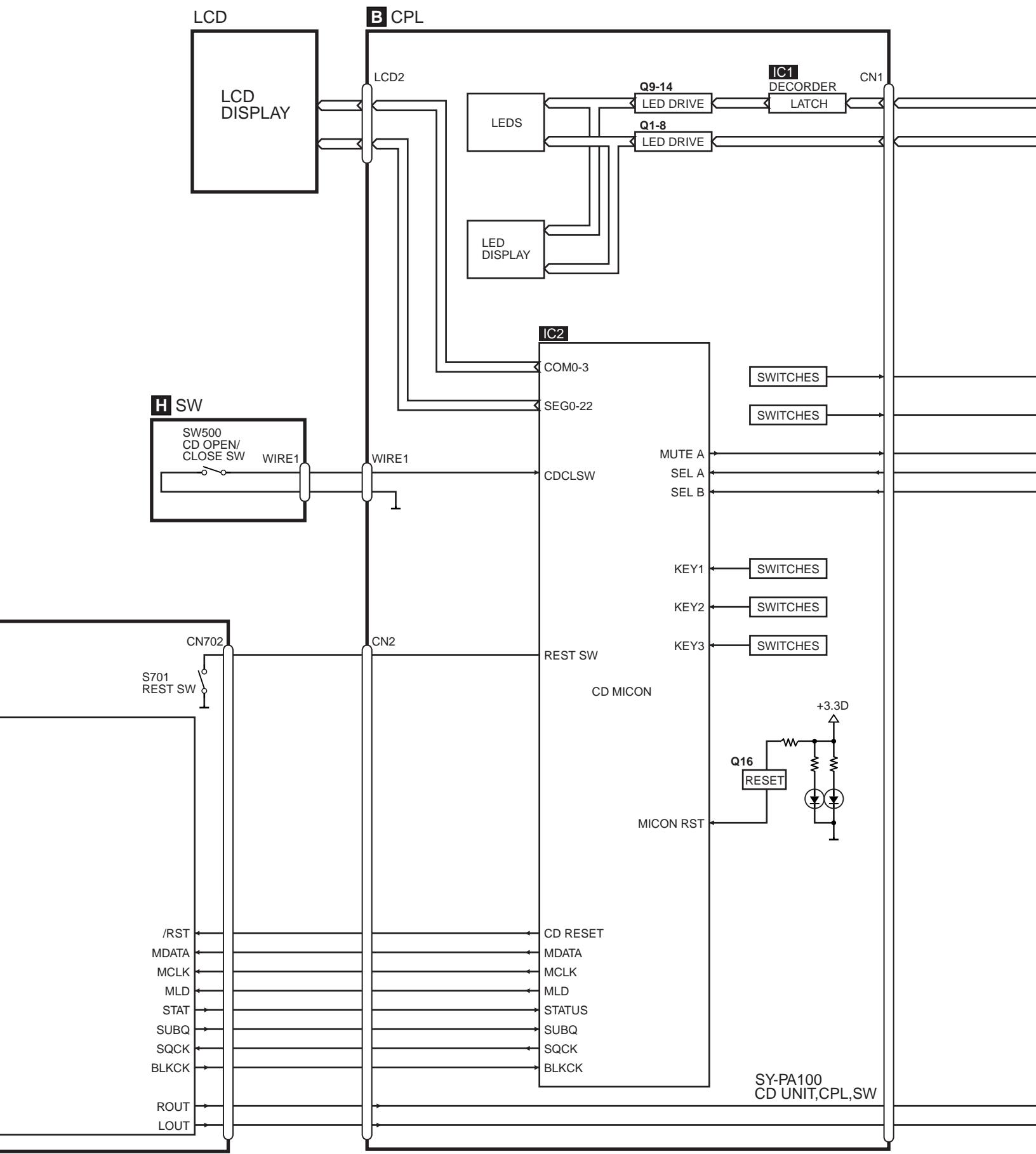


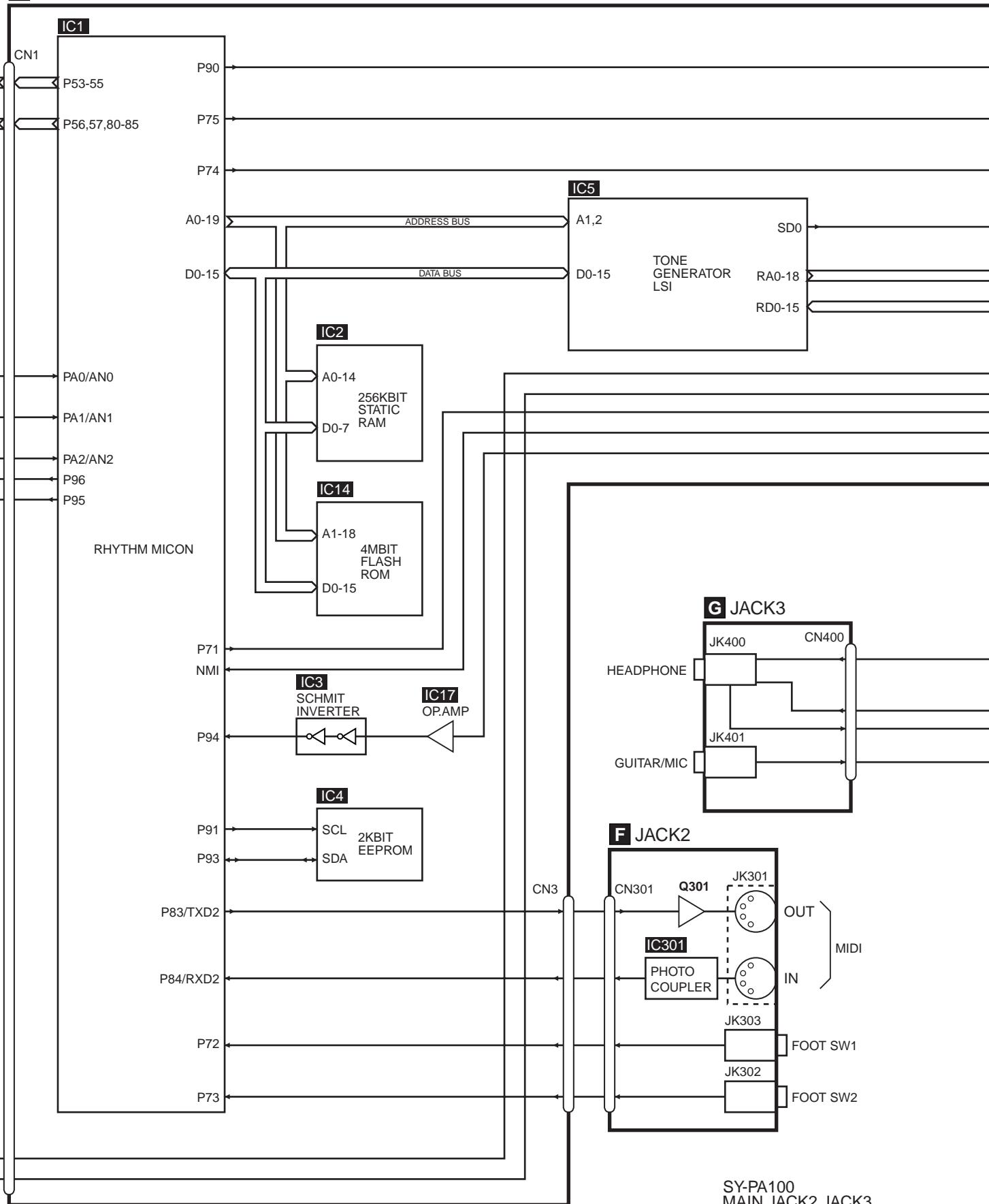
G JACK3 CIRCUIT

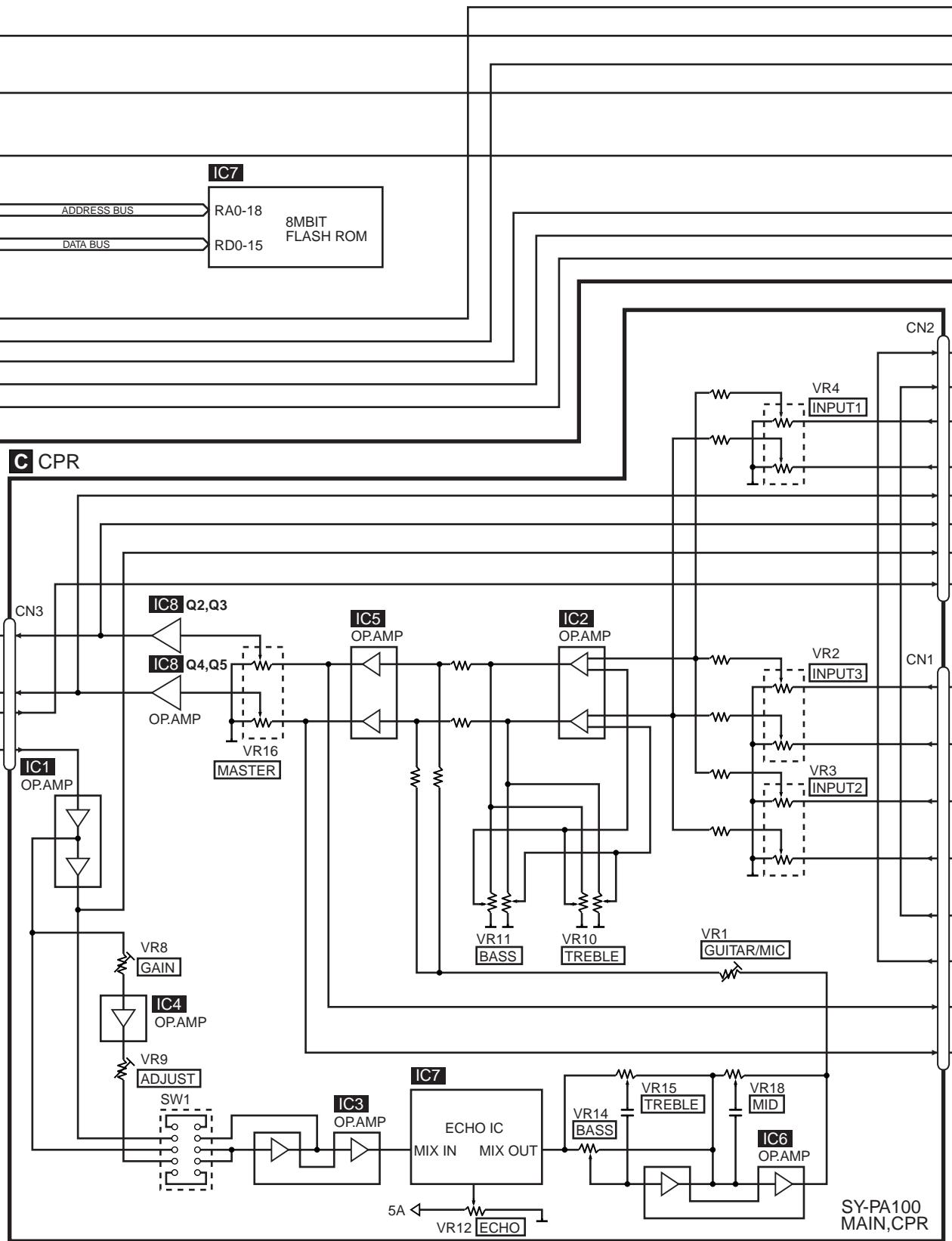


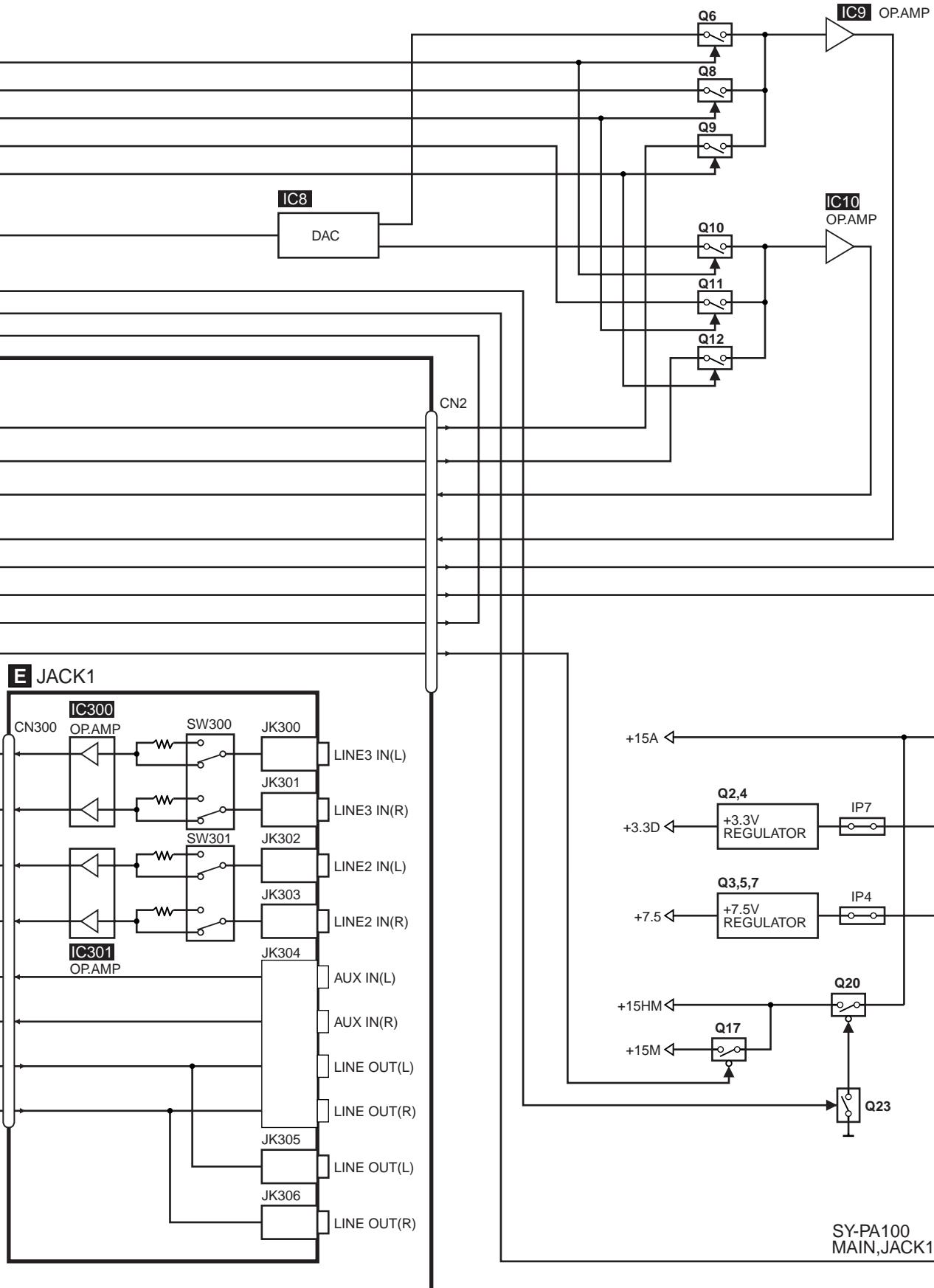
CD UNIT**B CPL P.C.B.****H SW P.C.B.****E JACK1 P.C.B.****C CPR/MIX P.C.B.****A MAIN P.C.B.****G JACK3 P.C.B.****F JACK2 P.C.B.****D ACP P.C.B.**

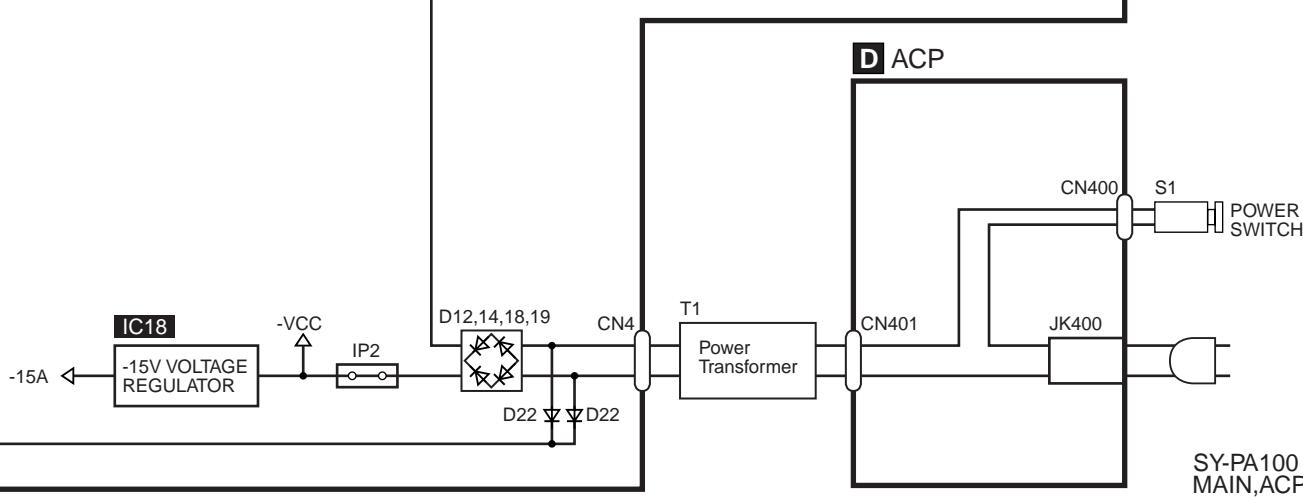
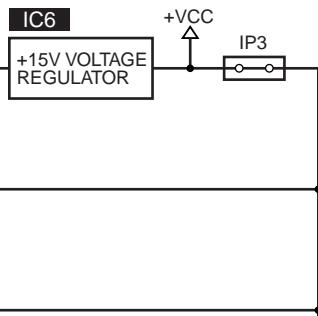
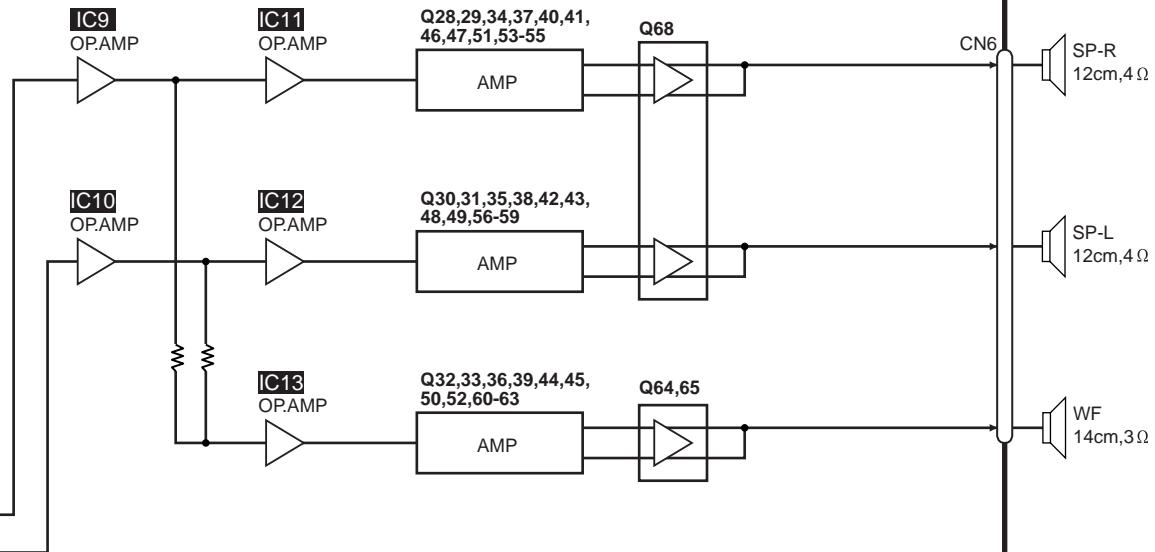




A MAIN

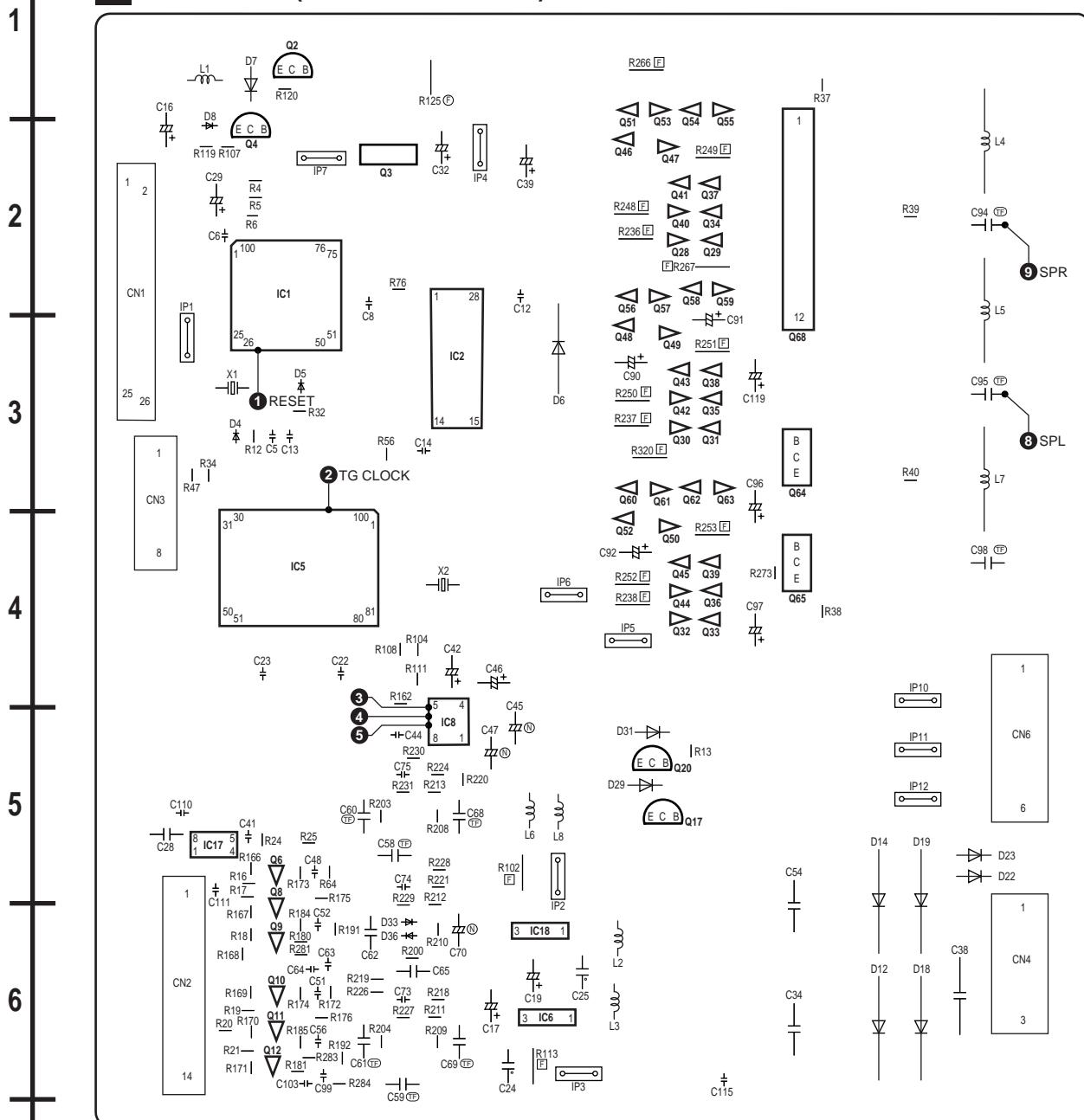






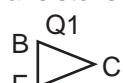
A | B | C | D | E | F

A MAIN P.C.B. (COMPONENT SIDE)



(SXPG237211)

7 (Example)
Transistor's symbolmark:

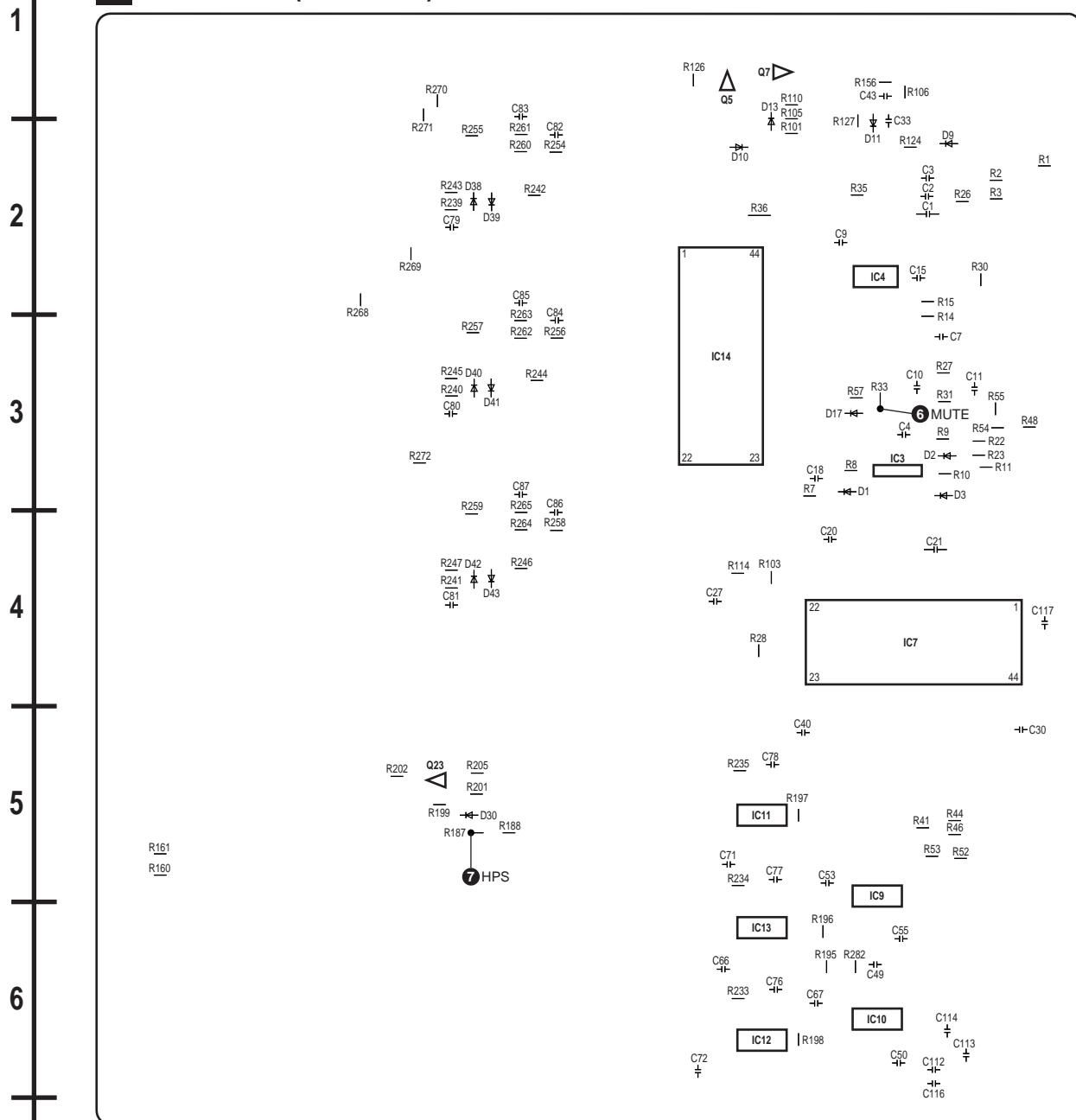


Applied for all transistors

MAIN P.C.B.
(COMPONENT SIDE)
(SXPG237211)

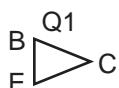
A horizontal number line with six tick marks. The tick marks are labeled with capital letters: A, B, C, D, E, and F. The labels are positioned above the line, with A on the far left and F on the far right. There are five equal intervals between the tick marks.

A MAIN P.C.B. (FOIL SIDE)



(SXPG237211)

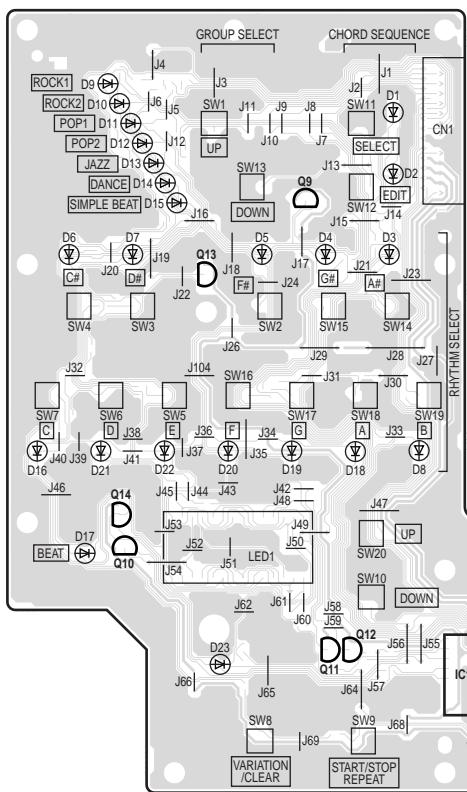
(Example)
Transistor's symbolmark:



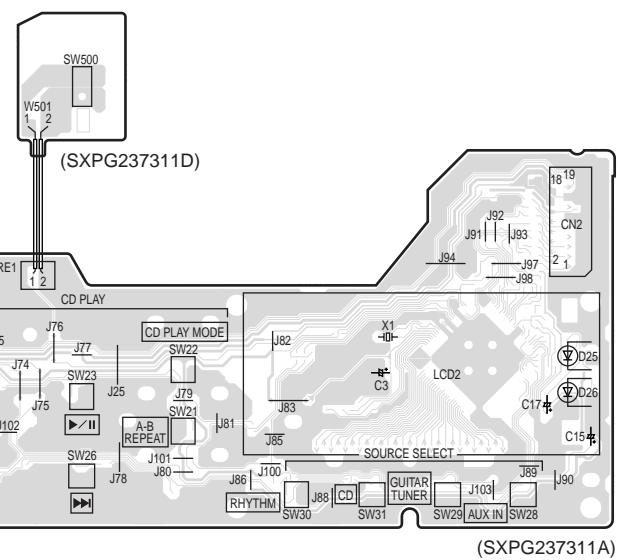
Applied for all transistors

A | B | C | D | E | F

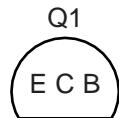
B CPL P.C.B. (COMPONENT SIDE)



H SW P.C.B.



5
(Example)
Transistor's symbolmark:

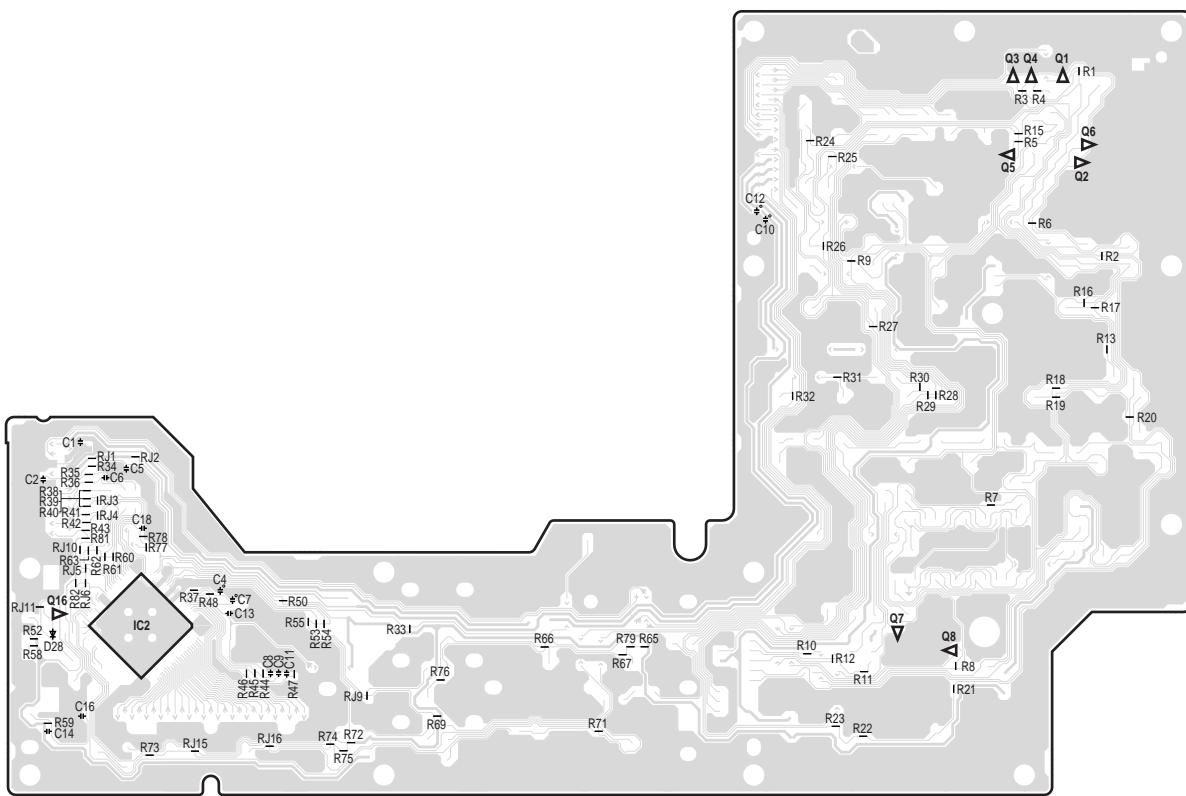


6
Applied for all transistors

SY-PA100
CPL,SW P.C.B.
SXP237311A : CPL P.C.B.
(COMPONENT SIDE)
SXP237311D : SW P.C.B.

A horizontal number line with six tick marks. The tick marks are labeled from left to right as A, B, C, D, E, and F.

B CPL P.C.B. (FOIL SIDE)



(SXPG237311A)

5 (Example)
Transistor's symbolmark:

Q1

Applied for all transistors

A

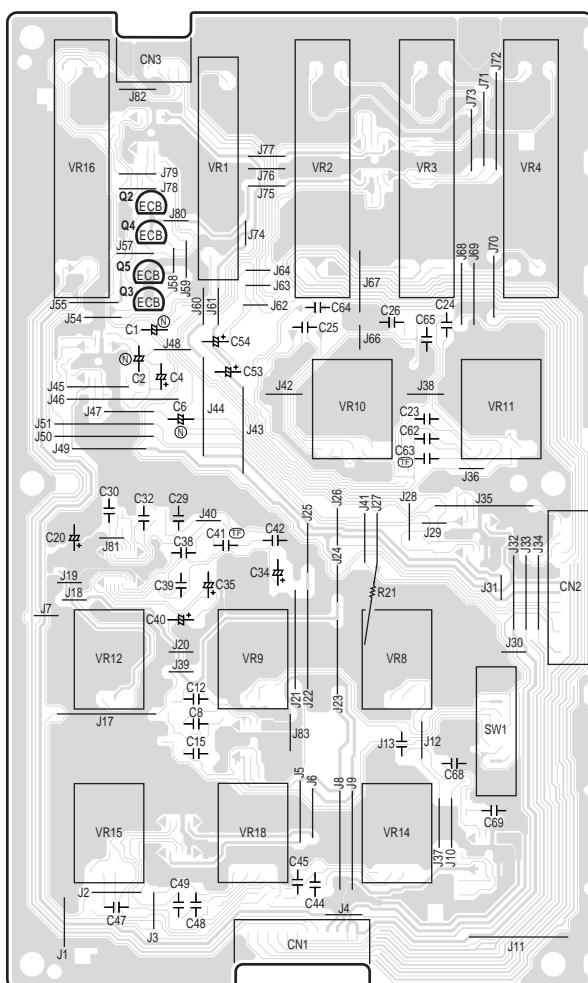
B

C

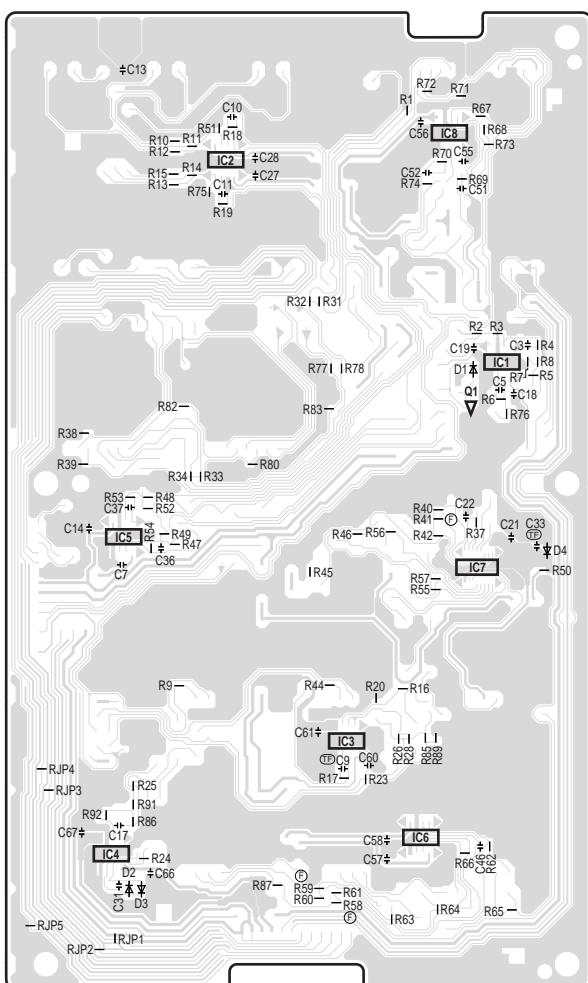
D

E

F

C CPR/MIX P.C.B. (COMPONENT SIDE)

(SXPG237411A)

C CPR/MIX P.C.B. (FOIL SIDE)

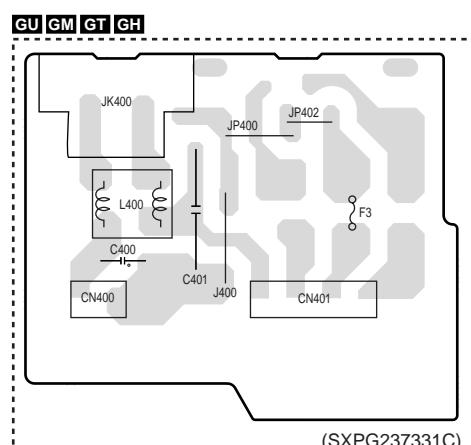
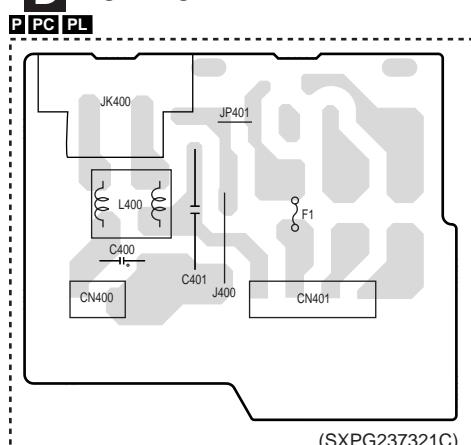
(SXPG237411A)

Note) • C17 is fixed on the position of J13.

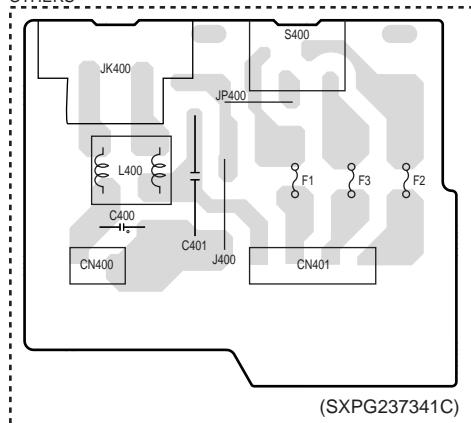
SY-PA100
CPR/MIX P.C.B.
(COMPONENT SIDE)
(FOIL SIDE)
SXPG237411A

A horizontal number line with six tick marks. The tick marks are labeled with capital letters: A, B, C, D, E, and F. The labels are positioned above the line, with A on the far left and F on the far right. There are five equal intervals between the tick marks.

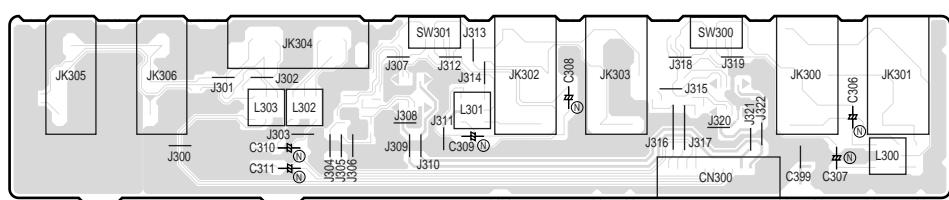
D ACP P.C.B.



OTHERS

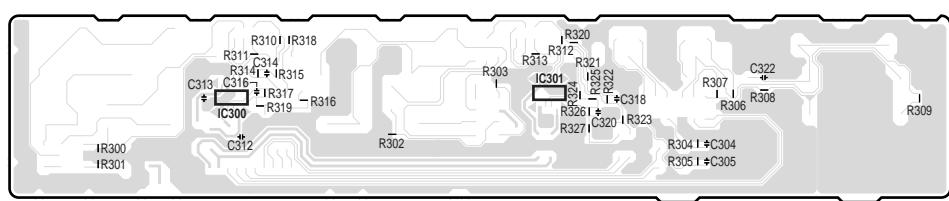


E JACK1 P.C.B. (COMPONENT SIDE)



(SXPG237311B)

E JACK1 P.C.B. (FOIL SIDE)



(SXPG237311B)

SY-PA100

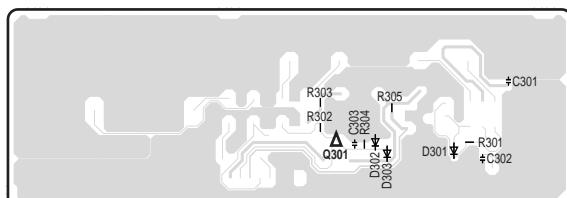
ST11A100
ACP,JACK1 P.C.B.

SXPG237321C/31C/41C : ACP P.C.B.

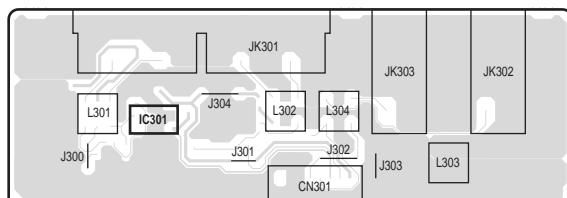
SXPG237311B : JACK1 P.C.B. (COMPONENT SIDE), (FOIL SIDE)

A | B | C | D | E | F

F JACK2 P.C.B. (FOIL SIDE)



F JACK2 P.C.B. (COMPONENT SIDE)



(SXPG237411B)

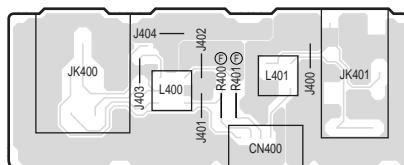
(SXPG237411B)

G JACK3 P.C.B. (FOIL SIDE)



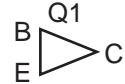
(SXPG237411C)

G JACK3 P.C.B. (COMPONENT SIDE)



(SXPG237411C)

4
(Example)
Transistor's symbolmark:



Applied for all transistors

5

6

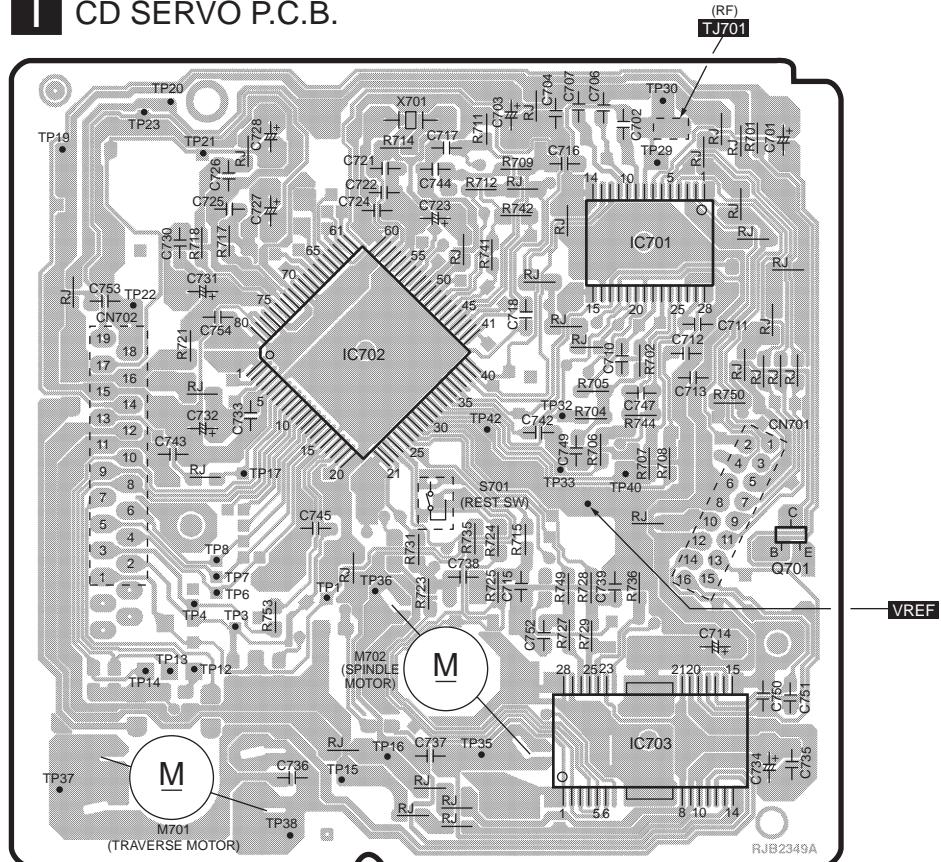
7

8

SY-PA100
JACK2,JACK3 P.C.B. (COMPONENT SIDE)
(FOIL SIDE)
SXPG237411B : JACK2 P.C.B.
SXPG237411C : JACK3 P.C.B.

A | B | C | D | E | F

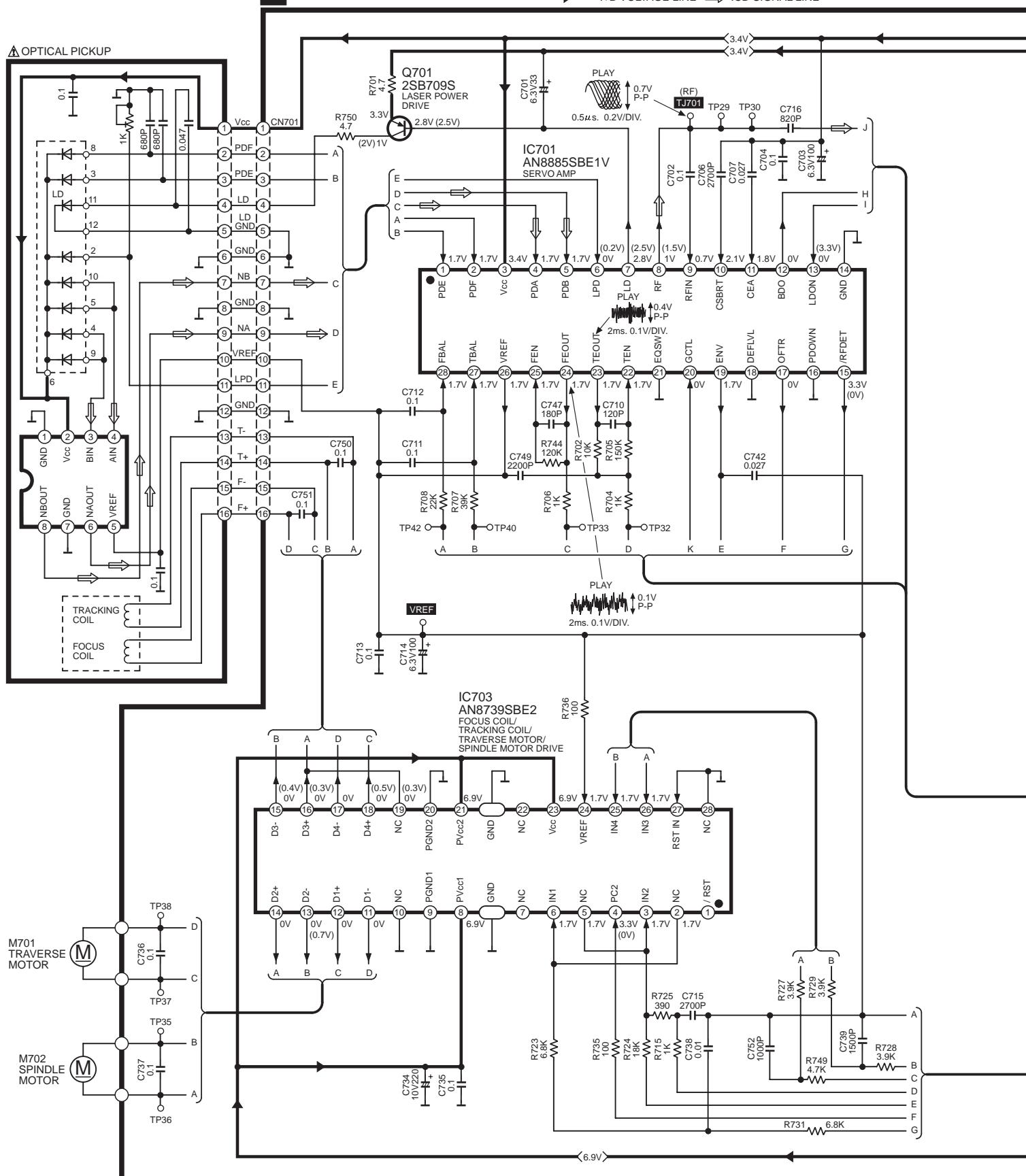
| CD SERVO P.C.B.



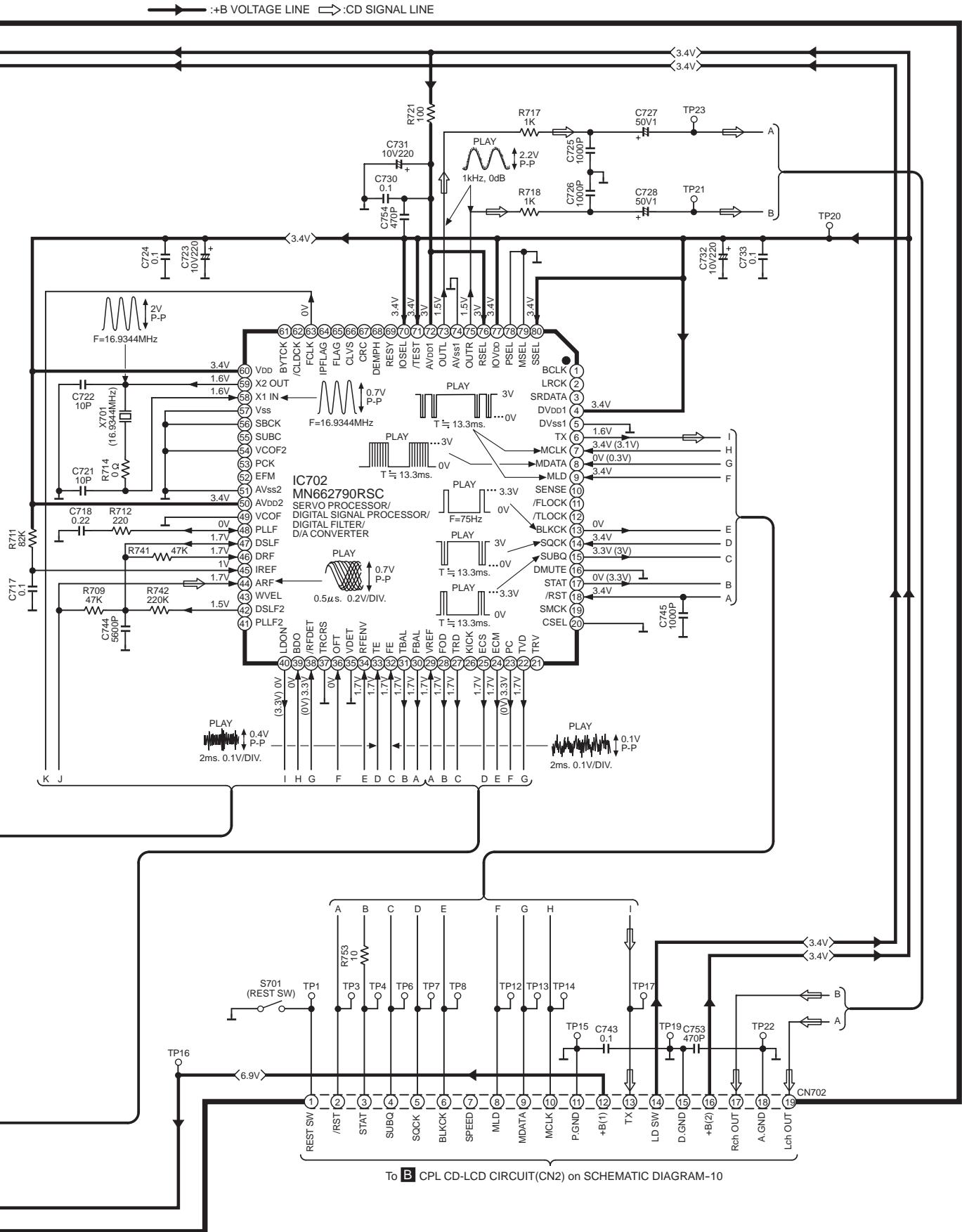
SY-PA100
CD SERVO P.C.B.
REP3118A-N

I CD SERVO CIRCUIT

→ :+B VOLTAGE LINE → :CD SIGNAL LINE



SCHEMATIC DIAGRAM-17



Ref No.	IC701																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
MODE	1.7	1.7	3.4	1.7	1.7	0	2.8	1.0	0.7	2.1	1.8	0	0	0	3.3	0	0	0	1.7	0
STOP	1.7	1.7	3.4	1.7	1.7	0.2	2.5	1.5	0.7	2.1	1.8	0	3.3	0	0	0	0	0	1.7	0
PLAY	1.7	1.7	3.4	1.7	1.7	0.2	2.5	1.5	0.7	2.1	1.8	0	3.3	0	0	0	0	0	1.7	0

Ref No.	IC702																			
	MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
STOP	-	-	-	3.4	0	1.6	3.4	0	3.4	-	-	-	0	3.4	3.3	0	0	3.3	0	0
PLAY	-	-	-	3.4	0	1.6	3.1	0.3	3.4	-	-	-	0	3.4	3.0	0	3.3	3.4	0	0

Ref No.	IC702																				
	MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	-	1.7	3.3	1.7	1.7	-	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0	0	0	3.3	0	0
PLAY	-	1.7	0	1.7	1.7	-	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0	0	0	0	0	3.3

Ref No.	IC702																			
	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
MODE	-	1.5	-	1.7	1.0	1.7	1.7	0	0	3.4	0	-	-	0	-	0	0	1.6	1.6	3.4
STOP	-	1.5	-	1.7	1.0	1.7	1.7	0	0	3.4	0	-	-	0	-	0	0	1.6	1.6	3.4
PLAY	-	1.5	-	1.7	1.0	1.7	1.7	0	0	3.4	0	-	-	0	-	0	0	1.6	1.6	3.4

Ref No.	IC702																			
	MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
STOP	-	-	-	-	-	-	-	-	-	3.4	3.4	3.0	1.5	0	1.5	3.0	3.4	0	0	3.4
PLAY	-	-	-	-	-	-	-	-	-	3.4	3.4	3.0	1.5	0	1.5	3.0	3.4	0	0	3.4

Ref No.	IC703																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	0	0	3.3	-	-	4.1	0	2.9	1.8	3.6	0	0	1.3	3.6	0	0	0	3.6	0	0